BURROUGHS, WELLCOME & C
LIBRARY

LEATH & ROSS,

THE OLD-ESTABLISHED

HOMŒOPATHIC CHEMISTS,

Continue to supply their well-known brand of

HOMŒOPATHIC MEDICINES

To all parts of the civilised world on the most advantageous terms.

SEND FOR ORDER FORMS AND PRICE LIST.

PILULES & TINCTURES,

Put up in 1*s*. Bottles, ready for sale, **3s. 9d. per Dozen,** in neat Cardboard Cases, done up in outers containing ½ dozen and 1 dozen in each.

PROPRIETARY ARTICLES COMMANDING A LARGE SALE:—

GLYKALINE,

THE CURE FOR

Catarrhs, Hay Fever, and Colds.

LEATH & ROSS'S GLYKALINE is now admitted to be the best and speedie ıdıure for Catarrhs, Influenza, and Bronchitis. Taken at intervals of one hour, these diseases vanish like magic, and leave no trace behind by which to remember them. Try it! In Bottles, 1*s*. 3*d*., free by Post. 40,000 have been sold.

NEURALINE,

THE CURE FOR

Neuralgia, Faceache, or Tic-Douloureux

LEATH & ROSS'S NEURALINE is now a well-known and acknowledged cure for the above complaints; scarcely ever fails to afford relief in a few moments from the most maddening pains. Should be in every household, and used at the earliest moment. In Bottles, 1*s*. 3*d*., free by Post. 52,000 have been sold.

PHOSPHO-MURIATE OF QUININE.

THE SPECIFIC FOR

DEBILITY, EXHAUSTION, & NERVOUSNESS.

Gives tone and energy to body and mind. In Bottles, 1*s*. 1½*d*. and 2*s*. 9*d*. each.

CHENOPODIUM WORM POWDERS

Still maintain their great popularity. In Boxes, 1*s*. 9*d*. and 2*s*. 9*d*. each. Orders coming in for them from all parts of the world, in quantities from 200 to 400 at a time.

Indentors should always include these four celebrated preparations in their indents. The first three, in gross quantities, 8s. 6d. per dozen net; the fourth, in any quantity, at 13s. 6d. and 19s. 10d. per dozen net.

SPECIAL QUOTATIONS TO LARGE BUYERS AND TO SHIPPERS.

LEATH & ROSS,

9 Vere Street, W., and 5 St. Paul's Churchyard, E.C.,

LONDON.

CAPSULED "McK. & R." PILLS.

McKesson & Robbins : Originated 1870 : New York.

WHY SHOULD THE "McK. & R." PILLS BE PRESCRIBED?

1. Because they are prepared from materials of the highest quality only.
2. Because they are made according to the B.P. or other Standard Authorities, and therefore all the combinations are well tried and of recognised value.
3. Because they are taken pleasantly—being tasteless—and readily, being ovoid in form.
4. Because they are not subjected at any stage of preparation to the injurious action of heat.
5. Because the coating of *pure transparent gelatine* preserves the contents from oxidation.
6. Because they are always soluble, and the contents soft and quickly disintegrated.

LIST OF PRINCIPAL CAPSULED PILLS.

Aloes, all the B.P. combinations ..... 5 gr.
Aloes, Dilute (Dr. Hall Dinner Pill) ..... 4 gr.
Aloes Barb. | Pulv. Ext. Glycyrrh.
Saponis Pulv. | Theriaca, āā ..... 1 gr.
Aloes and Nux Vomica—
Aloes Soc. ..... 1½ gr. | Ext. Nucis Vom. .... ½ gr.
Aloin ..... 1/10, ¼, ½, 1 gr.
Aloin, various combinations.
Anti-Dyspepsia (Fothergill)—
Strychninæ ..... 1/30 gr. | Pulv. Ipecac. ..... 2-3 gr.
Pulv. Piper Nig. ..... 1½ gr. | Ext. Gent. ..... 1 gr.
Arsenious Acid ..... 1-20, 1-50 gr.
Asafœtida, U.S. and B.P. ..... 5 gr.
Atropine ..... 1-100, 1-300 gr.
Blue Pill, B.P. ..... 1, 2, 3, 5 gr.
Blue Pill, with Colocynth and Hyoscyam. ..... 5 gr.
Calcium Sulphide ..... 1-10, 1-4, 1-2, 1 gr.
Calomel, Colocyn., and Hyosc. ..... 5 gr.
Calomel Co., B.P. ..... 5 gr.
Camphor and Hyoscyam ..... 2 gr.
Camphoræ. | Ext. Hyoscy., āā ..... 1 gr.
Cannabis Indica ..... 1-4, 1-2 gr.
Cascara Sagrada ..... 3 gr.
Cathartic Comp., U.S.P.
Ext. Jalap ..... 1 gr. | Hyd. Subchlor. ..... 1 gr.
Ext. Coloc. Co. .... 1 1-3 gr. | Gamboge ..... 1-4 gr.
N.B.—The ready solubility of the "McK. & R." Pills is readily proved by taking a dose of these.
Colocynth Comp., B.P. ..... 4, 5 gr.
Colocynth, other combinations.
Copaiba Compound—
Cubebæ Pulv. ..... 2 gr. | Mass. Copaib. ..... 1 gr.
Ferri Sulph. Exsic. .. 1-2 gr. | Terebb. Venet. .... 1 1-2 gr.
Corrosive Sublimate ..... 1-30, 1-20, 1-10 gr.
Croton Oil ..... 1-2 gr.
Diuretic—
Ext. Buchu, Potass. Nitrat. ..... 1 gr.
Scillæ Pulv. ..... 1-2 gr.
Emmenagogue—
Ferr. Sulph. Exsic. ..... 1 1-2 gr.
Thus, American ..... 1 1-2 gr.
Aloes Socot. ..... 1-2 gr.
Ergotin ..... 3 gr.
N.B.—Each Pill = 30 gr. ergot or 30 ms. fl. extract. This form is more reliable and uniform in effect and more agreeable than the liquid preparations.
Euonymin ..... 2, 3 gr.
Iodoform and Iodoform with Iron ..... 1 gr.
Ipecac. ..... 1-4, 5 gr.
Ipecac. Co. ..... 5 gr.
Ipecac. and Squill, B.P ..... 5 gr.
Iron Pill, B.P. Add. ..... 3, 5 gr.
Iron Arseniate ..... 1-8 gr.
Iron reduced by Hydrogen (Quevenne) ..... 1, 4 gr.
Iron and Quinine Citrate ..... 2 gr.

Laxative, Vegetable—
Res. Podoph. | Ext. Coloc. Co. ..... 1 gr.
Ext. Hyoscy. | Jalapæ
Ext. Tarax, āā ..... 1-4 gr. | Res. Leptand. āā .... 1-2 gr.
Ol. Menth. Pip.
Mercury, Biniodide ..... 1-16 gr.
Mercury, Proto-Iodide ..... 1-20, 1-16, 1-8, 1-4 gr.
N.B.—Made from the absolutely pure *yellow* impalpable powder, free from mercury and from biniodide.
So-called "green" proto-iodide contains uncombined mercury.
Mercury with Chalk ..... 1 gr.
Morphine Muriate ..... 1-8, 1-4 gr.
Nitro-Glycerine ..... 1-200, 1-100, 1-50 gr.
Opium ..... 1 gr.
Opium and Camphor ..... 1 gr.
Opii Pulv. ..... 1 gr. | Camphoræ ..... 2 gr.
Pepsin, Pure ..... 1 gr.
Phosphorus ..... 1-100, 1-50, 1-30 gr.
N.B.—In no kind of Pill are the advantages of the "McK. & R." method better exemplified or more in request. No other brand of Phosphorus Pills is equally reliable for the administration of the unoxidised medicament.
Phosphorus and Iron—
Phosphor. Pur. .... 1-50 gr. | Ferr. Redact. ..... 2 gr.
Phosphorus, Iron, and Quinine—
Phosphor. Pur. .... 1-100 gr. | Ferri Carb. ..... 1 gr.
Quininæ Sulph. ..... 1 gr.
Phosphorus and Nux Vomica—
Phosphor. Pur. ..... 1-50 gr. | Ext. Nucis Vom. .... 1-4 gr.
Phosphorus and Quinine—
Phosphor. Pur. ..... 1-50 gr. | Quininæ Sulph. ..... 1 gr.
Phosphorus and Valerianate of Zinc—
Phosphor. Pur. ..... 1-50 gr. | Zinci Valer. ..... 1 gr.
Picrotoxin ..... 1-80 gr.
Podophyllin ..... 1-8, 1-4, 1-2 gr.
Quinine, Bisulphate ..... 1-4, 1-2, 1, 2, 3, 4, 5 gr.
Quinine, Sulphate ..... 1-4, 1-2, 1, 2, 3, 4, 5 gr.
Quinine Co. (Anti-Malarial).
Largely prescribed in America with excellent results.
Rhubarb Comp., B.P. ..... 5 gr.
Rhubarb with Blue Pill ..... 5 gr.
Salicylic Acid ..... 2, 5 gr.
Soap Comp., B.P. ..... 5 gr.
Squill Comp., B.P. ..... 5 gr.
Strophanthus ..... 1-20, 1-4 gr.
Strychnine ..... 1-50 gr.
Tonic Laxative (Fothergill)—
Quininæ Sulph. .... 2-3 gr. | Ferri Redact.
Strychn. ..... 1-30 gr. | Ext. Bellad., āā ..... 1-4 gr.
Valerianates, Iron, Quinine, and Zinc.
Warburg's Tincture and the same without Aloes.
Each Pill = 1 fl. drm. of the Tincture.
Zinc Phosphide ..... 1-4, 1-2 gr.
Zinc Valerianate ..... 1 gr.

Special Combinations of 3,000 or more Pills made and Capsuled to order for Hospitals, &c., at Special Quotations.

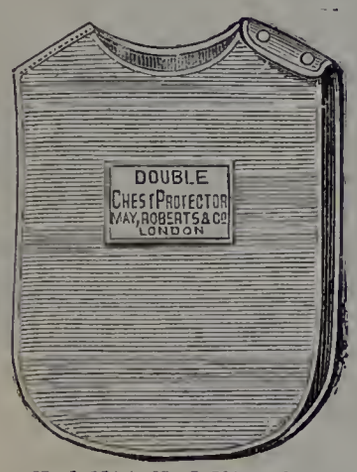
London Agency:—Messrs. S. Maw, Son & Thompson, 7 to 12 Aldersgate Street, E.C.
ALSO SUPPLIED BY
MESSRS. BURROUGHS, WELLCOME & CO., Snow Hill Buildings, London, E.C.;
MESSRS. GRIMWADE, RIDLEY & CO., 7 Union Court, Old Broad Street, London, E.C.

Winter Wants.

Another Season's trade is approaching. Already there are indications of a rigorous winter. The mornings are raw and cold, evenings chilly, and winds biting. None know so well as Chemists and Druggists the intimate relation between the barometer and health. Bad weather means various things; some of them we give quotations for on this page, with this brief hint: We are in the best position in the world for supplying the best goods, at the best prices, and on the best terms. We employ no Travellers, and give our Customers the advantage of the saving in expenses.

CHEST PROTECTORS.

IN FELT.

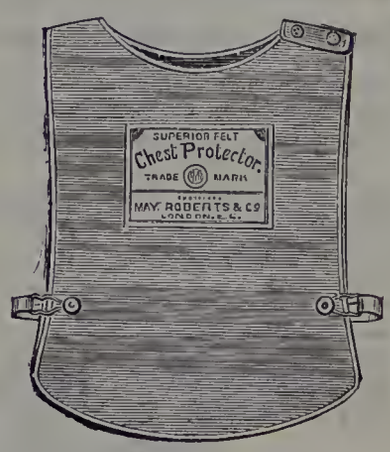


No. 1, 15/, to No. 5, 36/ per doz.

IN FLANNEL LINED WITH CHAMOIS.

No. 0, 4/9, to No. 5, 16/6 per doz.

BEST QUALITY FELT.



RED AND NATURAL.

No. 1, 18/, to No. 4, 28/ per doz.

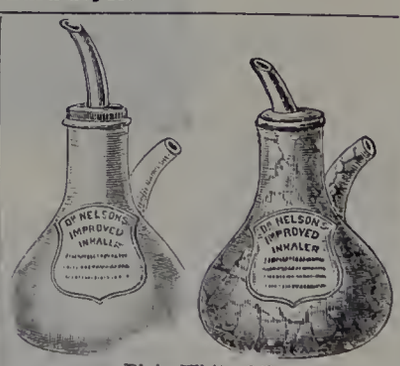
Only Best Quality of Materials used, and finished in splendid style.

BRONCHITIS KETTLES.
Oval, in Tin, 5/6 and 6/3. Cheaper kinds, 1/10 and 2/4.

HOT-WATER

BOTTLES.

3/7 to 8/ each.
Scarlet covers, 1/ to 2/ extra.



Plain White, 1/9.
Marbled.... 2/-.

SALEABLE SPECIALITIES, put up ready for retailing; quality of material in all cases excellent, and style of putting-up elegant.

CAMPHORATED GLYCERINE ROLL—In ½ and ¼ gross glass-top boxes, 1*d*., 5/; 2*d*., 9/6 per gross.
In 1-doz. glass-top boxes, 3*d*., 1/6; 6*d*., 3*s*. per dozen.

GLYCERINE JELLY—M. R. & Co.'s 6*d*. bottles, 2/6 per dozen.

GUTTA PERCHA (for Stopping Teeth)—In boxes containing 12 sticks, 14/ per dozen boxes.
Each stick in gold paper case, 1/9 per dozen box.
1*d*. squares, neatly wrapped, 2/6 per gross.
4-oz. sheets, 3/.

INHALERS—Cogbill's, Mackenzie's, Godfrey's, and other Ammonia Chloride Inhalers, at lowest prices.

LIP SALVE—Rose or White, in posh-up cases, in 1-doz. glass-top outers, 2/2 per dozen.

PLASTERS of all kinds, on paper, calico, swansdown, leather, &c., porous or otherwise. See Price List, pp. 46–47.

PROPRIETARY WINTER REQUISITES
AT SPECIAL TERMS FOR CASH.

MAY, ROBERTS & CO.

WHOLESALE DRUGGISTS' SUNDRIESMEN

Dealers in Patent Medicines, Proprietary Articles, Perfumery, Mineral Waters, Lozenges, &c., &c.,

9 CLERKENWELL ROAD, LONDON, E.C.

"CONCILIO ET LABORE."

THE MANCHESTER COLLEGE OF PHARMACY,

225 & 227a OXFORD STREET, MANCHESTER.

Directors: { Mr. W. Spencer Turner, Mr. Charles Turner.

At this month's examinations, so far, **TWO MAJORS** and **TWO MINORS** have passed.

Students wishing to join the classes for the December, January, and February Examinations are invited to do so without further delay.

Copyright Prospectus on Application.

THE NORTHERN SCHOOL OF PHARMACY,

100 Burlington St., MANCHESTER.

PRINCIPAL—Mr. GEORGE CLAYTON, PH.C.

At the recent July Examinations **Twenty-six** Students from the **Northern School** entered; **Twenty** passed.

At the previous April Examinations **Sixteen** Students entered; **Eleven** passed.

There are three distinct sets of classes running for Minor and Major:—(*a*) Full-time Day Course; (*b*) Afternoon Course; (*c*) Evening Course.

Prospectus, with Supplement and Pass Lists, posted to any address.

THE

LIVERPOOL SCHOOL OF PHARMACY

24 NEWINGTON, LIVERPOOL.

Principal—J. S. WARD, Ph.Ch., F.C.S., &c.

JULY "PASS LIST."

MAJOR.

Mr. R. C. Cowley, Douglas. (*Only one sent in.*)
(Mr. Cowley passed both Minor and Major at the first attempt.)

MINOR.

Mr. G. Baxendale, Congleton.
" W. E Bell, Bootle.
" J. B. Davies, Abergele.
" R. G. Emery, Burslem.
" E. Griffiths, Bodedern.
Mr. J. H. Griffiths, Little Brighton.
" W. Holmes, Liverpool.
" W. J Moon, Ilfracombe.
" D. Owen, Amlwch.
" N. S. White, Liverpool.

SCHOLARSHIPS.

Mr. H. A. D. Jowett won a "Bell" Scholarship (*taking the highest position*).

Note.—In 1887 Mr. W. A. Salter took a "Bell" Scholarship; in 1889 Mr. E. B. Sherlock took the "Redwood" Scholarship; and both of them afterwards became Pereira Medallists.

THE HIGHER EDUCATION.

During the present vacation extensive alterations have been made to meet the requirements of the New Schedule. . . The accommodation and appliances of the Chemical Laboratory have been increased, a Pharmaceutical Laboratory constructed, and provision made for practical microscopic work in Botany and Materia Medica.

The New Session begins on Tuesday, September 1, 1891.

Syllabus, with Pass Lists, Fees, &c., sent post free on application to the Principal.

DARTON'S IMPROVED CLINICAL THERMOMETER.

Fig. 1.
Fig. 2.
Fig. 3.

Hospital Pattern, in German Silver Cases	21/	per dozen.
Standard do., Fig. 3 " " or Vulcanite	27/	"
Lens Front do. Fig. 1 " " "	54/	"
Do., rapid action, by which readings can be taken in as short a time as 30 seconds, Fig. 2	66/	"

We beg to caution our clients against buying spurious imitations of our well-known goods.

DARTON'S SHOW CASES OF SPECTACLES.

Chemists commencing the Spectacle business will find these Show Cases arranged with an assortment of Spectacles and Folders of all sights, to meet the requirements of purchasers. The quality and quantity may be varied to suit any class of trade at customer's wish. Case is of Solid Polished Mahogany, well made and finished, to stand any climate. A large Coloured Show Card is sent with each case, and instructions for testing sights, with table of Nos., and together with Sight Tester, £2 2*s.*; do, with assortment of Folders and Test Types, £3 3*s.*; Large-sized Case, with more complete assortment, £6 6*s*; do., with assortment of Pebble Spectacles, £10 10*s.*; Large size do, £21.

The following Trade Lists now ready: "Spectacles and General Optics," "Meteorological Instruments," "Electric Bells, Medical Batteries, &c.," mailed Free to any part of the World.

F. DARTON & CO., Makers to H. M. Government **45 & 142 ST. JOHN ST.**

FALLOWFIELD'S

PHOTOGRAPHIC ANNUAL, 1891.

512 Pages, 680 Illustrations.

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Everything New. Everything Explained.
Concise, Complete, Comprehensive.

OVER 300 AGENTS.

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Summer Price List profusely Illustrated.
POST FREE.
Best quotations given for all Photographic Goods actually stocked.

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CENTRAL PHOTOGRAPHIC STORES,
146 Charing Cross Road, W.

THE MAGIC LANTERN: ITS CONSTRUCTION AND USE. Contains complete Instructions. Cloth covers, **PRICE 6d.**

ESTABLISHED 1852. *Trade* **"OPTIMUS"** *Mark.* CATALOGUE POST FREE.

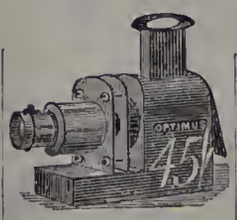
MAGIC "OPTIMUS" LANTERNS.

Each Magic Lantern is efficient for Exhibitions. The Lens gives crisp definition, being a superior Achromatic, Photographic Combination (large diameter back lens), with rack and pinion. It is fitted to a telescopic lengthening tube, so gaining increased focal accommodation. The Condenser is composed of two plano-convex lenses of four inches diameter. The refulgent lamp has three wicks (or four wicks 2s. extra), yielding a brilliantly-illuminated picture. Each is complete in box.

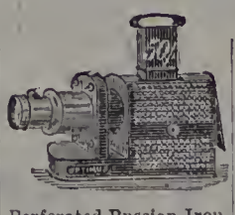
Japanned Metal. 30/.

Student's Lantern (to take demonstrating tank) finished Brass Sliding Tubes. 40/.

LANTERN PHOTOGRAPHS, 12s. per doz.
PLAIN, 18s. 6d. per doz.
COLOURED.



Russian Iron Body, Brass Sliding Tubes. 45/.



Perforated Russian Iron Body, Brass Sliding Tubes. 50/.

Mahogany outside Body, 2 Panelled Doors, Brass Stages, & Sliding Tubes, 80/.

"OPTIMUS" BI-UNIAL
FOR LIMELIGHT.

The Top Lantern may be used separately with Oil Lamp.

Seasoned Mahogany Body. 4 Panelled Doors, and Moulded Foot, picked out with black, Achromatic Photographic Front Lenses, Compound Condensers, all Brass Stages £8 8

"OPTIMUS" TRIPLE
FOR LIMELIGHT.

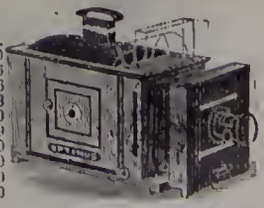
Seasoned Mahogany Body, 6 Panelled Doors, Moulded Foot, picked out with black, Brass Stages and Tubes, Achromatic Front Lenses, Compound Condensers £14 10

"OPTIMUS" ENLARGING APPARATUS.

Patent Quick-acting Rack Adjustment.

This Apparatus comprises superior Mahogany Body Lantern and Long Bellows Camera adjusted by Rack and Pinion. The Lantern is fitted with powerful Refulgent Lamp, with 3 wicks, giving brilliant illumination. Compound Condensers.

CONDENSER.	£. d.	If with Russian Iron instead of Mahogany Body.	£. d.
5-in., no front lens	100 0	5-in., no lens ...	75 0
5-in., with "	127 0	5-in., and " ...	102 6
6-in., no "	133 0	6-in., no " ...	87 6
6-in., with "	151 0	6-in., and " ...	115 3
7-in., no "	155 0	7-in., no " ...	110 0
7-in., with "	173 6	7-in., and " ...	137 9
8-in., " "	250 0	8-in., no " ...	160 0
9-in., " "	290 0	9-in., " " ...	250 0
10-in., " "	400 0	10-in., " " ...	285 0
12-in., " "	580 0	12-in., " " ...	450 0



PERKEN, SON & RAYMENT, 99 HATTON GARDEN, HOLBORN VIADUCT, **LONDON.**

WINTER SEASON, 1891-92.

FAMILY REFERENCE ALMANACK, 1892.

Chemists may be supplied with the above popular Annual with their names, &c., on the cover, free of charge, on writing to Messrs. KAY BROTHERS LIMITED, and *undertaking their distribution from house to house as soon as received.* Also 1,000 bills for counter use, with name and address, *if asked for.* Enclose two (2) labels for correct address, with population of the district and best means of conveyance, *under cover (labels on post-cards being contrary to regulations), addressed "Advertisement Department," at earliest convenience.* The Almanacks will be sent direct from the printer with counter bills, show-cards, &c., if required.

TRADE **"COAGULINE"** MARK.

Kay's New Transparent Cement for Broken Articles.

"Clear as Crystal," "Stronger than Glass," "Tough as Leather," 6*d.*, 1*s.*, 2*s.*, in Boxes, or on Cards.
Show-cards, Handbills, with name, &c. Specimens, &c., for home, or export, free.

KAY'S COMPOUND

Essence of Linseed, Aniseed, Senega, Squill, Tolu, &c.
(With Chlorodyne), 9½*d.*, 13½*d.*, 2*s.* 9*d.*, &c.

KAY BROTHERS, LIMITED.

LABORATORY AND WORKS:
ST. PETERSGATE MILLS, STOCKPORT.

TOWNSEND'S ALMANACKS FOR 1892.

X READ THIS — A CUSTOMER IN GUERNSEY says:—"Please print and send me 2,000 36 page Universals. Allow me to congratulate you on your sample, which improves every year, and my customers appreciate them more and more, and their advertising value steadily increases."

X ALSO THIS — A CUSTOMER IN SCOTLAND writes:—"Your Almanack was greatly appreciated in this district. The matter is interesting as well as instructive, and the printing all that could be desired; with thanks for your prompt attention to order."

TOWNSEND'S ALMANACKS

NEW DESIGNS. **1892** FRESH NOVELTIES.

SEND FOR SAMPLES.

JAMES TOWNSEND, MEDICAL LABEL PRINTER, EXETER.

1892 1892

SILVERLOCK'S CHEMISTS'

ALMANACKS

16 Designs to select from.

1892 1892

SACHET ALMANACK, printed 32 pages.
PRESENTATION „ „ 32 „
THE COURT „ „ 36 „
"TIMES FLIGHT" HANGING CALENDAR.
HANGING CALENDAR, in Colours.
HANGING CARD CALENDAR, in 2 Colours.
SINGLE CARD CALENDARS.
FOLDING CARD CALENDARS.
PURSE ALMANACKS.

Specimens and Prices Now Ready.

Sent Post free on receipt of Business Card.

H. SILVERLOCK,
92, BLACKFRIARS ROAD, LONDON, S.E.

"Vinolia" Soap.

HYDROLYSIS.

PROPOSITION.

If one part of any soap in the market, opaque or otherwise, be dissolved in four parts of boiling water, an abundance of free alkali will always be present, and all statements to the contrary are not correct.

SCIENTIFIC PROOF (showing Alkali)

1. This aqueous solution of Soap will turn red litmus paper blue.
2. A little Phenol Phthalein solution will turn it crimson.

HOME TESTS.—Taste, Touch, Smell.

TASTE.—If the tongue be rubbed on a piece of ordinary Toilet Soap, the alkali present will "bite."

TOUCH.—When the skin is washed with ordinary Soaps, alkali, either free or set free in hydrolysis, dries it.

SMELL.—(a) Soaps containing strong powerful scents are usually made with bad fats, the powerful perfumes being used to cover the rancifying fats.

(b) A freshly cut slice of ordinary transparent Soap smells of methylated spirit.

(c) The same held over a lighted match gives off an odour of burnt sugar.

A SCIENTIFIC ADVANCE.

The extra cream in "Vinolia" Soap is the only possible antidote tending to guard the integument during hydrolysis, and to prevent any injurious action on delicate skins.

MAKE NO MISTAKE.

The materials employed to superfat "Vinolia" Soap are entirely different and distinct from the mineral oils and saponifiable and unsaponifiable animal fats incorporated with the superfatted imitations of "Vinolia" Soap that have been foisted on the market since the introduction of that popular article.

BLONDEAU et CIE., RYLAND ROAD, LONDON, N.W.

Our American Address is:—73 & 75 WATT'S STREET, NEW YORK.

9

EXCHANGE COLUMN.

This Section of "The Chemist and Druggist" must be closed for press by Thursday morning's post of each week. Remittances payable to EDWARD HALSE.

TERMS.

Advertisements in this department must be paid for in advance. From this rule no deviation can be made. Insertions are charged at the rate of ½d. per word, provided the advertiser attaches his name and address, for each word of which he must also pay at the same rate; or if he pays 1d. per word, his name and address will be registered and a figure attached to his advertisement. All correspondence referring to that figure must be addressed to "The Publisher of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.," and the figure must be distinctly endorsed upon the envelope. Letters will then be forwarded to their proper destination. A price is counted as one word, as *e.g.*, £1 10*s.* 6*d.*

DEPOSIT OF MONEY.—In order to ensure safety we offer the following system:—The purchaser of anything advertised in the Exchange Column may remit the amount to us, accompanied by a commission of 6*d.* if the amount is £3 or under; and 1*s.* if over that sum. We acknowledge receipt of deposit to both parties, and hold the money until we are satisfied that either the goods are returned to their original owner or the purchase is completed.

Postal orders and cheques sent as deposit must be made payable to Edward Halse, and crossed "Martin's Bank (Limited)."

FOR DISPOSAL.

Drugs and Chemicals.

Two Winchesters ol. lavand. Mitcham, 1887 (Evans's and Hearon's). Offers to Biggs, Chemist, Stourbridge.

Literature.

"Nerve Prostration," by Robson Rouse; just published at 18*s.*; post free 10*s.* Mr. Cullingford, 198 Cromwell Road, South Kensington, S.W.

Educational.

Minor books, second-hand, cheap. Smith, Repton Burton-on-Trent.

What offers for "Maclaren's Atlas of Venereal Diseases," good as new? Logsdael, Chemist, Lynn.

Formulæ.

Practical Ink Making.—Chemists wishing the best recipes for inks, should send for my list; free, one stamp. Deane, 95 West Graham Street, Glasgow.

Reduced Price.—5*s.* per dozen, 3 for 1*s.* 6*d.*, post free.—Tom Brooks' Reliable Recipes: "Mist. Occasional" (for ladies); "Anti-Drink Pills," "Tic Specific," "Hair Restorer," "Toothache Cure," "Skin Pills," "Gripe Syrup," "Quinine and Iron Tonic," "Corn Solvent," "Nursery Lotion," "Ringworm Specific." List of 400, and Specials, post free. Tom Brooks, Chemist, Hornsey, London, N.

Proprietary Articles.

Half-gallon Benbow's Dog Mixture; what offers? cash or saleable stock. Elliott, Chemist, Southport.

Golden opportunity.—Moonseed Bitters, Pills, Ointment, all sizes, at half retail prices; new stock, perfectly clean; cash with order. Adam, Chemist, Pigott Street, Birmingham.

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Mahogany counter, 8 ft., solid top, with handsome panelled front and carved trusses; price 50*s.* Kitson, Chemist, Worcester.

Entire fittings for a chemist's, second-hand, for sale, together or separate, very cheap: 12 feet run of drawers, shelving, pilasters, cornice, &c., complete, price 15*l.*; long counter and dispensing-counter, with plate-glass front, 15*l.*; screen, mirror centre, 6*l.* 10*s.*; shop-rounds, gold labelled, 10*s.* 6*d.* per doz.; mahogany wall-case, 6 ft. long, 8*l.* 10*s.*; toothbrush-case, 35*s.*; 12 pink dome-covered jars, 42*s.*; extract-pots to match, 24 for 35*s.*; and a lot of other fittings. Philip Josephs, 54 Old Street, Goswell Road, London, E.C.

Two specie-jars, with glass covers, 13 in. high, 2*s.* 9*d.* each; 11 specie jars, with glass covers, 17 in. high, 4*s.* 6*d.* each; 1 1-gallon tincture-press, 25*s.*; 1 specie-jar, and glass gilt cover, 30 in. high, Phœnix, 2*l.*; several nests of drawers; stoppered rounds; 1 16-gallon globe, cut stopper, 1*l.* 10*s.*; new ebonised plate glass case, 4 ft. by 2 ft. and 9 in. high, trays, mirrors on flaps, 4*l.* 10*s.*; 37 1-gallon black uprights, with caps and bungs, 1*s.* 5*d.* each; 35 ½-gallon ditto, ditto, 1*s.* each; 41 4-oz. patent oil-bottles, glass caps, 1*s.* 1*d.* each. W. Hawke & Son, Wild Court, Great Wild Street, London, W.C.

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Leclanché battery, 50 cells; how much? Arthur Stooke, Milton, Sittingbourne.

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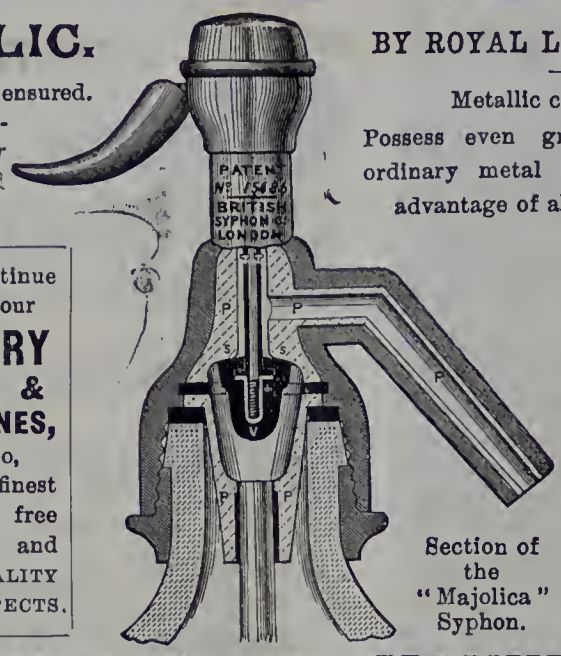

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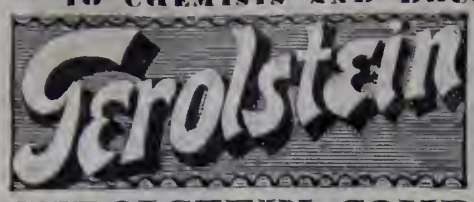

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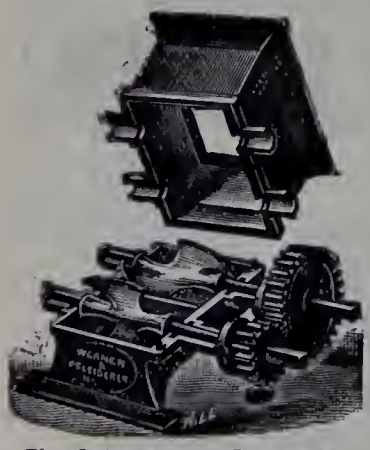

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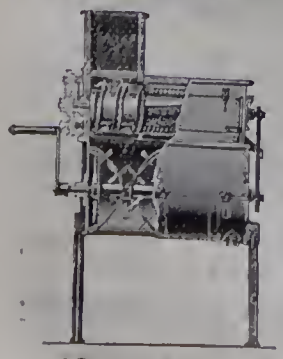

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As supplied to the Admiralty, War, and India Offices.

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Every kind and Colour in Stock. Orders executed on receipt.

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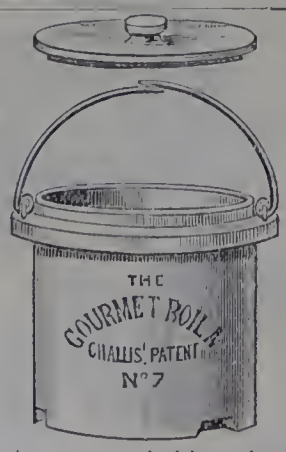

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A glazed stoneware vessel with a wire handle, which stands inside an ordinary saucepan that is half filled with water. They are numbered according to the ordinary iron saucepans they fit.

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No. 3 (½ pint)	6/	No. 8 (4 pint)	16/
,, 4 (1 ,,)	8/	,, 9 (4½ ,,)	18/
,, 5 (1½ ,,)	10/	,, 10 (5½ ,,)	20/
,, 6 (2½ ,,)	12/	,, 11 (6 ,,)	22/
,, 7 (3½ ,,)	14/	,, 12 (7½ ,,)	24/

The "Rapid" Cork Puller.

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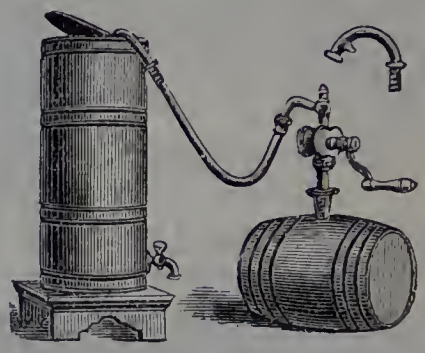

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Bowdlear W. H., & Co.
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Sanger & Sons'

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Thompson & Capper
Watson & Wates
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London Homœopathic
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Fellowe
Fletcher, Fletcher & Co.
Symes & Co.
Typke & King
Tyrer, Thomas, & Co.
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Anderson & Adams
Hockin, Wilson & Co.
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Spirone, Co., The
Toogood, W.
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Bewley & Draper
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Maw, S., Son & Thompson
May, Roberts & Co.
Sanford & Co.
Steiner & Co.
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LIME JUICE
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Tyrer, P.
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Howards & Sons
May & Baker (Lim.)
Tyrer, Thomas, & Co.
METHYLATED SPIRITS
Boord & Son
Burrough, J.
Harvey, J. & W., & Co.
Jones & Co.
Phillips, G., & Co
Smith, S., & Co.
METHYLENE
Robbins, J., & Co.
MICROSCOPES
Darton, F., & Co.
Perken, Son & Rayment
MILK
Nestlé, H. (Condensed)
MIXING MACHINERY
Gardner, W.
Werner & Pfleiderer
MORPHIA
Macfarlan, J. F., & Co.
Smith, T. & H., & Co.
OILS, PAINTS, &c.
Hugh Higngate & Co.
Fox, W., & Sons
OINTMENT BASES
Burroughs, Wellcome & Co.
Chesebrough (Vaseline)
Griadley & Co. (Petroleum Jelly)
Reade Bros. & Co
OPTICIANS
Botwright & Grey
Darton, F., & Co.
Lancaster & Sons
Perken, Son & Rayment
Raphael & Co.
OTTO OF ROSE
Fuerst Bros.
Moryoseph, A.
Shipkoff & Co.
Treatt, R. C.
PAPAIN PINKLER
Kuhn, B.
PATENT AGENTS
Horn & Son
PATENT MEDCNS
Armbrecht, Nelson & Co.
Atkinson & Barber (Infant Preserv)
Barclay & Sons (Lim.)
Beecham, T. (Pills)
Edwards & Son
Evans, Lescher & Webb
Fenning's (Powders)
Globe Chemical Co.
Goodall, Backhouse, & Co.
Guy's Tonic
Holloway (Pills and Oint.)
Lalor (Phosphodyne, &c.)
Lamplough, H. (Lim.)
Lincoln (Clarke's Mix.)
May, Roberts & Co.
Newbery & Sons
Radam'e Microbe Killer Co. (Lim.)
Roberts & Co. (Foreign)
Sequah (Lim.)
Sutton, W., & Co.
Thompson, Walters, Hole & Co. (Lim.)
Vegeler, The Charles A., Co.
Wincox & Co.
Wilson, A. (Bunter's Nervine)
PERFUMERY, FANCY SOAPS
Bayley & Co.
Bloudeau & Cie.
Boehm, F.
Burroughs, Wellcome & Co.
Chesebrough Manufctring Co
Chiswick Soap Co.
Evans, Sons & Co.
Ewen, J., & Sons
Farina, J. M.
Giraud Fils
Greensill, T. S., & Son
Lograud, L.
Mourard, J.
Mulhons, F.
Newbery & Sons (Berdoes)
Ottinger, E.
Pears' Soap
Price's Patent Candle Co
Rosmarine Manufg. Co.
Salisbury, S. (Lav. Water)
Schlesinger, L.
Shirley, A. W.
Thompson, Walters, Hole & Co. (Lim.)
Tidman & Son
Treatt, R. C.
Truefitt, H. P. (Lim.)
Warrick Brothers
West, T. (Okell's Mona)
Woolley Sons & Co. (Powder

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Dush, W. J., & Co.
Cocking & Co.
Jakson, J., & Co.
Miller, J. & G.
PEPSINE, &c.
Burroughs, Wellcome & Co.
Chassaing & Co.
Fletcher, Fletcher & Stevenson
Greeff, R. W., & Co.
Newbery, F. & Sons (Ingluvin)
Stern, G. & G.
Warner & Co. (Ingluvin)
Wyleys (Lim.)
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Robbins & Co.
PETROLEUM
Grindley & Co. (Jelly)
Snowdon, Sons & Co. (Jelly)
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Barron, Harveys & Co.
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Bertillis Cantramin Co.
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Burgoyne, Burbidges & Co.
Burroughs, Wellcome & Co.
Chassaing & Co.
Duncan, Flockhart & Co.
Elton & Co.
Ferrie & Co.
Fletcher, Fletcher & Co.
Giles Schacht & Co.
Greeff, R. W., & Co.
Hearon, Squire & Francis
Hewlett & Son
Hill, A. S., & Son
Hooper, B., & Co.
Howards & Sons
Jeyes Sanitary Compounds Co.
Jordan & Co
Keith & Co. (Conc. Tinctures)
Lambert Pharmacal Co
Largen, G. W.
Layng, R. C.
Martindale, W.
May & Baker (Lim.
Moryoseph, A.
Moss, J., & Co.
Potter & Clarke
Rankin & Borland
Ricqles & Co.
Roberts & Co.
Smith & Sons
Smith, T. & H., & Co.
Southall Bros. & Barclay
Sutton, W., & Co.
Symes & Co.
Timbury's Eucalyptus Oil Co
Tyrer, T., & Co.
White, Alfred, & Sons
Willows, Francis & Butler
Woolley, Sons & Co.
Wyleys & Co.
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Fallowfield, J.
Greeff, R. W., & Co.
Griffiths, W., & Co (Lim.)
Howards & Son (Chemicals)
Lancaster, J., & Son
Marion & Co.
Orme, J., & Co.
Perken, Son & Rayment
Tyrer, T., & Co.
White, Alfred & Sons
PILL MACHINES
Pindar, J. W.
Toogood, W. (Coater)
Werner & Pfleiderer
PILLS (Coated, &c.)
Allen & Hanburys
Anderston Apothecaries Hall
Beecham, Thomas
Champigay, A., & Co.
Eade's Gout Pills
Evans, Sons & Co.
Hearon, Squire & Francis
Hill, A. S., & Son
Holloway's
Jackson, W. & H.
Lloyd, T., Howard & Co.
McKesson & Robbins
Newbery & Sons
Richardson, J., & Co.
Wand, S.
Warner, W. R. & Co. (Coated)
Wyleys & Co.
PILL MACHINES
Pindar, J. W.
Toogood, W. (Coater)
Werner and Pfleiderer
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Brandreth, R. D.
Evans, Sons and Co.
Johnson and Johnson
Mather, W.
Quilliam, J., and Co.
St. Dalmas, A.
Seabury and Johnson
Thompson, M. F.
Young, H.
PODOPHYLLIN, &c
Keith, B., and Co.
Smith, T. and H., and
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Beckett, S.
Bradley & Bourdas (Albatum)
Easy and Co.
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Oakey, John and Sons
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Ford, Shapland and Co.
Jones, M. L., & Co.
Silverlock, H.
Townsend, J.

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Stern, G. and G.

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Howards and Sons
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Kuhn, B.

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Northern School of Pharmacy
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Stern, G. and G.

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Walker and Dairymple

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Evans, Lescher and Webb
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Hewlett and Son
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1,000 PILLS IN SHOW VASE, 5/6.

PIONEERS IN THE PILL TRADE!

WM. R. WARNER & CO.

SMALL SUGAR-COATED PILLS,

Unequalled in their medicinal properties or in SOLUBILITY, the best ingredients being invariably employed.

Suitable for Retail Sale, in Screw-capped Pill Tubes. Not liable to Stamp Duty unless specially recommended or sold as "Proprietary."

No. 142. Gran. Cath. Comp. (Little Cathartic Granulee). Aloin, 1-10 gr.; Podophyllin, 1-5 gr.; Ext. Hyoscy., 1-20 gr.; Jalapin, 1-10 gr.; Ext. Nuc. Vom., 1-20 gr.: Ol. Res. Capelci, 1-20 gr. Dose, 1 to 4.	Per 1,000, in Plain Bottle, 4/-.	Per Small Stoppered Vase with painted glase label, 5/6.	Per Stoppered Vase, with painted glass label. (5,000.) 21/-.

No. 180.—Gran. Cath. Co. c. Euonymin.—Same as "No. 142," except that ½ gr. Euonymin is used instead of ⅓ gr. Podophyllin. Price same as for "No. 142."

An "all-round" Antibilious Pill, which has found favour wherever introduced, is "No. 120" ("Pil. Cathartic and Liver").

No. 120. Pil. Cathartic and Liver. ℞ Podophyllin, ¼ gr.; Ext. Colocynth, ½ gr.; Pv. Soc. Aloes, 1 gr.; Pv. Scammony, ¼ gr.; Pv. Saponis, 1-8 gr.; Ext. Hyoscyami, 1-8 gr.; Gingerine, 1-8 gr. Dose, 2 to 4 pills as a purgative, 1 to 2 pills as an aperient.	Per 1,000, in Plain Bottle, 4/-.	Per Stoppered Vase, with painted glass label, 6/4.	Per Bottle (Bulk) of 5,000, 18/9.

Write for New Complete Price List of PILLS, GRANULES and PARVULES, &c., by W. R. WARNER & CO., giving upwards of 250 Excellent Formulæ, at moderate and greatly reduced prices.

Depot: F. NEWBERY & SONS.

VINCENT WOOD'S CHEST PROTECTORS.

FACSIMILE OF LABEL

Owing to the many imitations of my Invention I have, for the protection of the Trade, issued this Label, without which they are not genuine. The colour of this Felt is Golden Brown, thoroughly porous and washable, and the appliances may be obtained from every respectable dealer at these prices.

Usual Sizes, per dozen.

	0	1	2	3	4	5	6
Single	6/	7/6	9/6	12/6	15/6	18/6	21/6
Double... ...	13/	15/6	20/	25/	30/	36/	42/

Ladies' and Gent's Belts, Knee Caps, Neuralgia Caps, Throat Pieces, &c.

I also manufacture the Natural Wool or Fir Felt; also Lamb's Wool Felt, in Scarlet & White, of the finest qualities, at prices much below the usual prices consistent with quality and workmanship.

Usual Sizes.

	0	1	2	3	4	5	6
Single	4/6	5/6	7/6	9/	11/	15/	19/
Double.....	10/0	12/	16/	21/	26/	34/	42/

Also Pine or Flannel and Chamois, and made in every known pattern.

Any difficulty in procuring goods, apply to the Manufacturer—

VINCENT WOOD, 3 ST. ANDREW'S STREET, HOLBORN CIRCUS, LONDON, E.C.

Bona-fide Maker of Abdominal Belts, Trusses, Elastic Hosiery, Electrical and Magnetic Belts and Appliances, Chest Expanding Braces, &c.

Statuettes under Glass Cases supplied; also Show Cards, Window Glaciers, Circulars, Electros, &c. For our Latest Invention, see page 52.

NATURAL GREY UNDYED

"FURFELT"

CHEST PROTECTORS.

TRADE FURFELT MARK

These are made from a perfectly new felt, specially designed and manufactured to constitute an ideal Chest Protector. The material of which the Felt is made is pure, soft, undyed Lamb's Wool, incorporated with the Fur of the Grey Coney.

The advantages that these Chest Protectors combine are :—

(1) They are light and porous, allowing the natural products of perspiration to pass freely through them.
(2) They are undyed.
(3) The addition of the Fur to the Wool, besides rendering the felt extremely porous—a candle can easily be blown out through it—gives to the surface, even when in contact with the most sensitive skin, a rich, silky feel, entirely free from the slightest irritation. The Protectors are thus very comfortable in wear.
(4) The well-known property of furs in preserving the warmth of the body suggests at once the special applicability of the material to Chest Protectors.

MANUFACTURED IN ALL USUAL PATTERNS, SOLELY BY

SOLPORT BROTHERS, 66 SHAFTESBURY STREET, NEW NORTH ROAD, **LONDON, N.**

AND OBTAINABLE THROUGH ALL WHOLESALE HOUSES.

S. MAW, SON & THOMPSON'S

CHEST PROTECTORS AND VESTS

For Shielding the Lungs.

Fig. 3.
Double, for the Chest and Back.

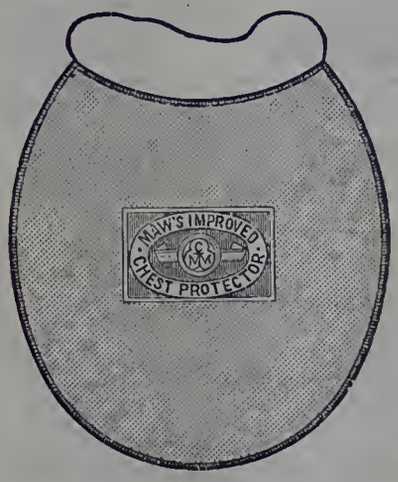


Fig. 4.
Single, Chest Protector.

Fig. 5.
Vest, a Shield for the Lungs.

CHAMOIS AND FLANNEL.

			No. 1	No. 2	No. 3	No. 4	No. 5
Fig. 3.	Double	per doz.	20/	26/	32/	39/	48/
	Ditto, perforated ...	"	24/	32/	38/	46/	54/
Fig. 4.	Single	"	9/	11/6	13/6	16/	20/
	Ditto, perforated ...	"	11/	14/	16/	19/	24/
Fig. 5.	Vests " ...	"	27/	34/	42/	51/	60/

FELT, ASSORTED SCARLET AND WHITE.

			No. 1	No. 2	No. 3	No. 4	No. 5
Fig. 3.	Double, best... ...	per doz.	17/	22/	27/	33/	44/
	Ditto, second ...	"	14/6	19/	23/	28/	37/
Fig. 4.	Single, best	"	7/6	9/6	11/	14/	20/
	Ditto, second ...	"	6/6	8/	9/6	12/	16/
Fig. 5.	Vests, Scarlet ...	"	17/	22/	27/	33/	40/

FELT, NATURAL UNDYED WOOL.

			No. 1	No. 2	No. 3	No. 4	No. 5
Fig. 3.	Double	per doz.	18/	24/	30/	36/	50/
Fig. 4.	Single...	"	8/	10/	12/	16/	22/

SPECIAL QUOTATIONS TO WHOLESALE BUYERS.

S. MAW, SON & THOMPSON, LONDON.

ALKARAM

LARGE COUNTER BILLS

(PLAIN ON ONE SIDE).

ELEGANT OPALINE PHOTOS FOR COUNTER DISPLAY,

Now Ready, and Sent Free on Request.

F. NEWBERY & SONS, 1 & 3 KING EDWARD STREET, **LONDON, E.C.**

THE "BROMPTON"

BRONCHITIS KETTLE.

SPECIAL FEATURES:—

Hook to Hang in Front of Fire.

Top of Fire Free for other purposes.

Tap to Draw off Hot Water.

CANNOT UPSET.

PATENT

THE LANCET, Sept. 26, says:—"A distinct improvement on the ordinary patterns of steam-producers for the benefit of sufferers from Bronchitis."

CAN BE HAD OF THE LEADING DRUGGISTS' SUNDRYMEN.

SOLE LICENSEES—

BENHAM & FROUD, LIM.

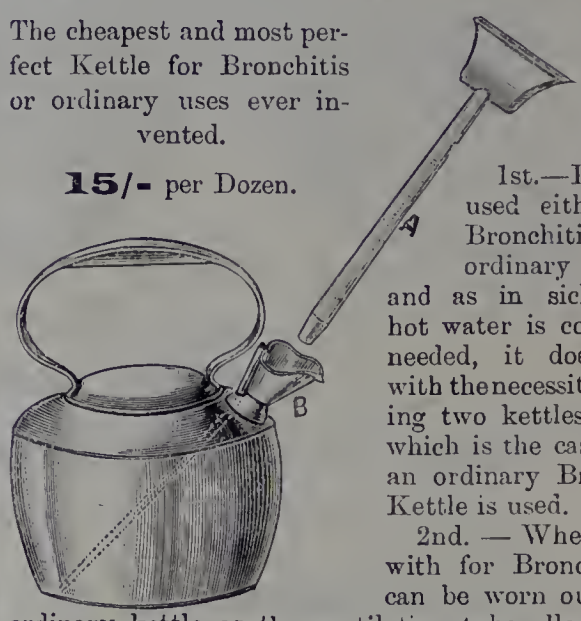
Chandos Street, LONDON, W.C.

THE PATENT

DUPLEX BRONCHITIS KETTLE

The cheapest and most perfect Kettle for Bronchitis or ordinary uses ever invented.

15/- per Dozen.



1st.—It can be used either as a Bronchitis or an ordinary kettle, and as in sick rooms hot water is constantly needed, it does away with the necessity of having two kettles in use, which is the case where an ordinary Bronchitis Kettle is used.

2nd. — When done with for Bronchitis, it can be worn out as an ordinary kettle, as the ventilating tube allows it to be *filled or emptied at the spout* faster than any other kettle.

SHOW CARDS & COUNTER BILLS.

Special Quotations to Wholesale Buyers.

EDWARD WOOLF, Manufacturer of Druggists' Sundries, ST. GEORGE'S CRESCENT, **Birmingham**

M. BAILEY & CO.

MANUFACTURERS OF DRUGGISTS' SUNDRIES.

M. B. & Co. beg to call the attention of the Trade to the following articles manufactured by them:—

Glass Syringes, Nipple Shields, Breast Exhausters, Fittings for Feeding Bottles, Tubes, and Tube Work in all its branches, &c., &c.

Sole Proprietors and Manufacturers of J. Brooks & Co.'s celebrated Specialities:—Winter Cream, Lip Salve, Solidified Camphor Cream, Glycerine Jelly, Perfumery, &c., &c.

Buyers are cautioned against imitations of those World-renowned preparations. None are genuine unless bearing our Registered Trade Mark.

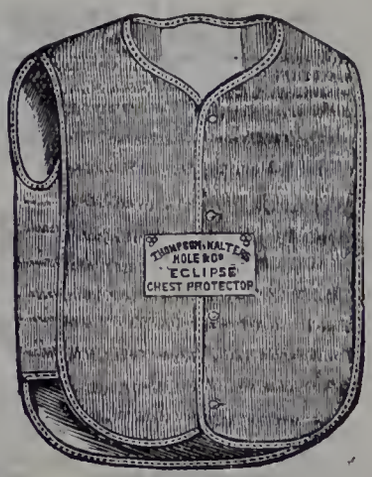
MAY BE OBTAINED THROUGH ANY OF THE WHOLESALE HOUSES. WHOLESALE AND EXPORT ONLY FROM

M. BAILEY & CO., 32 and 34 Buckingham Road, KINGSLAND, N.

SPECIAL TERMS FOR

CHEST PROTECTORS.

Buyers of these goods are particularly requested to communicate with us before placing their season's orders. By manufacturing these goods ourselves we are enabled to place on the market a very superior article at prices unequalled by any, where size and quality are taken into account.



In Scarlet or White Felt, Natural Wool, or Chamois and Flannel.

We are offering Special Discounts for quantities of £5 and upwards; and, in addition, we Present Gratis a handsome Glass-top Mahogany Show Case (see illustration below)

with all orders of £5, or, if preferred, we print Special Label Cards with Customer's Own Name, &c.

For a £10 order we will both print Special Label Cards and also present the Show Case above.

WRITE AT ONCE TO

THOMPSON, WALTERS, HOLE & CO., LIMITED,

CURTAIN ROAD, LONDON, E.C.

"PRICE'S GLYCERINE"

(Originally introduced in 1855).

Guaranteed free from ARSENIC

and all other impurities.

WHOLESALE FROM

PRICE'S PATENT CANDLE CO.,

LIMITED,

London, Liverpool, and Manchester.

DR. PAUL'S

HIGH-CLASS

MANICURE SPECIALITIES,

Certified as innocuous by eminent English and American Chemists.

	Retail	Wholesale per doz.
CERALINE. For tinting Finger Tips, Face and Lips	2/6	18/-
POUDRE LUSTRALE. Gives a brilliant shell-like transparency to the Nails	2/6	18/-
CRÈME CAMÉLIA. Restores Rough and Chapped Skins to their original softness	2/6	18/-
NAIL OLEATE. Preserves and gives a brilliant polish to the Nails, and prevents Hangnails, &c.	1/6	10/6
CLEANSING FLUID. Instantly removes all stains from the surface and underneath the Nails	2/6	18/-
FACE AND HANDS LOTION. Softens the Skin and removes all discoloration	4/6	33/-
EMERY BOARDS. For bevelling the rough edges of the Nails after use of the file ... per box	1/-	7/-

ORANGE WOOD STICKS.

A valuable novelty introduced in Dr. Paul's system of Manicure to apply the "Cleansing Fluid" under the free margin of Nails, and thus avoid the danger of scratching with steel instruments, 7/- per doz. bundles.

CAUTION!—Dr. Paul's Specialities can be obtained at all first-class Perfumers' and Chemists', but many imitations are offered at inferior Stores

WHOLESALE AGENTS:

OSBORNE, CARRETT & CO., FRITH STREET, LONDON, W.C.

PERFUME SPRINKLERS,

ALSO FOR

HAIR WASHES, CREAMS, OILS, INKS, &c.

MANUFACTURERS:

H. G. SANDERS & SON,

Victoria Works, Victoria Gardens, Notting Hill Gate, LONDON, W.

Established 1820. Telegraphic Address: "COLLAPSIBLE LONDON."

HOPGOOD & Co's HAIR NUTRITIVE & SEDATIVE CREAM

The only preparation for the Hair recommended by leading Physicians for the removal of Scurf, allaying irritation, preventing greyness and baldness, and producing a

LUXURIANT HEAD OF HAIR.

JOHN A. WALCOTT, M.D., M.R.C.S., says: "I feel much pleasure in being able to recommend (with confidence) your NUTRITIVE CREAM in all cases of irritation of the scalp, accumulation of dandriff and loss of hair, in each of which I have freely used it with UNFAILING SUCCESS."

In Bottles to Retail at 1s. 6d., 2s., 2s. 6d., 3s. 6d., 5s.

Revised Wholesale Prices, 12s. 6d., 16s. 6d., 20s., 30s., and 42s. per dozen. Supplied by all Wholesale Sundry Houses, OR FROM THE DEPOT—

OSBORNE, CARRETT & CO., 51 FRITH ST., SOHO LONDON, W.

28

PURE OTTO OF ROSE,

SPECIALITY OF

SHIPKOFF & CO.

DISTILLERS AND EXPORTERS,

KIZANLIK, BULGARIA.

Agent for Great Britain—G. P. BAKER, 19 Ivy Lane, LONDON, E.C.

THE OTTO OF ROSE which this house distils and exports is known above all by the absolute purity of its quality and the unexcelled sweetness and strength of its odour. It is guaranteed to be the finest essence produced in the famous Rose Valley of Bulgaria.

Shipkoff's Brand received the only award for Otto of Rose at the Paris Exhibition.

NOTICE!!

THE FIRM of MARIA CLEMENTINE MARTIN,

NUN

Have been Awarded **PRIZE MEDALS** for their Celebrated

EAU DE COLOGNE

AT THE FOLLOWING EXHIBITIONS, VIZ:—

LONDON, 1851. RHENISH PROVINCES, 1852. NEW YORK, 1853.
PARIS, 1855. LONDON, 1862.
VIENNA, 1873. SYDNEY, 1879. MELBOURNE, 1880.

Facsimiles of Prize Medals Awarded at London Exhibitions, 1851 & 1862, appear on Label of each Bottle. Without such, None are Genuine.

BEWARE OF IMITATIONS!!

EAU DE COLOGNE of the **"NUN"** (so-called), manufactured by any firm other than the above, is spurious, and an infringement of registered proprietary rights.

PRICE LIST.

	Duty Paid, Net.	In Bond.		Duty Paid, Net.	In Bond
No. 1.—Half Shorts	8/6	5/6	No. 4.—Long Green Flasks	16/-	11/-
No. 2.—Shorts	16/-	11/-	No. 5.—Wickered Bottles (Small)	26/6	19/3
No. 3.—Shorts (finely Wickered)	21/3	16/6	No. 6.—Wickered Bottles (Medium)	53/-	38/6

No. 7.—Wickered Bottles (Large) 106/- duty paid, net; 77/- in bond.

Small Cases assorted to order (of not less than £3 value in bond) delivered free freight, less 7½ per cent. discount.

All Sizes can be obtained through any Wholesale House, or direct from the Sole Agents for Great Britain and Ireland,

C. E. MASON & CO.,

2 BEECH STREET, LONDON, E.C.

A1 MENTHOL CONES.

LEADING LINES.

1*d.* Vase or Pedestal	6/6 gross.
1*d.* Bottle	6/- „
2*d.* Pedestal, Varnished	14/- „
2*d.* Barrel „	14/- „
3*d.* Draughtsman „	18/- „

1*d.* and 2*d.*, 3 dozen on Card.
3*d.*, 2 dozen on Card.

No. 8P.	6*d.*	Pedestal Acorn, boxwood	3/3 doz.
„ 111.	1/	„ „ „	5/6 „
„ 11.	4*d.*	„ „ „	2/3 „
„ 109.	4*d.*	„ polished willow	2/6 „
„ 40.	6*d.*	Watch shape	3/3 „
„ 7B.	9*d.*	Barrel, printed boxwood	4/6 „
„ 113P.	6*d*	Skittle „ „	3/6 „
„ 1.	4*d.*	S. C. Bottle	2/9 „
„ 3.	6*d*	„	3/6 „

No. 103B.	4*d.*	Boxwood Pedestal ..	2/6 doz.
„ 113R.	6*d.*	„ Reversible ..	3/6 „
„ 9CR.	1/	„ „ ..	4/6 „
„ 117.	6*d.*	Monster, Willow ..	3/3 „
„ 112.	6*d.*	Draughtsman	3/3 „
„ 14L.	1/	Pedestal, printed box ..	6/3 „
„ 17F.	1/	Flat, printed	5/6 „
„ 5.	1/	S. C. Bottle	5/- „
„ 30.	4*d.*	Glass Shade	2/- „
„ 31.	9*d.*	„ „	5/- „

Feeding Bottles.

Fig. 6.—The **"SAFETY"** white glass Boat Feeder, fitted with screw stopper, each in box, with bottle brush, 6/- doz.

ABOVE IS EXTRAORDINARY VALUE.

COMPETITION DEFIED!!

No House in the World can offer such advantages as THE BABIES' FEEDING BOTTLE CO., managed by A. W. SHIRLEY.

COMPLETE LIST OF FITTINGS, TEATS, ETC., POST FREE.

Fig. 1.—The "Dot," white glass, black fittings, valve tube, extra teat and tube, two brushes, each in a box	3/- doz.
„ 2.—The "Dot," white glass, black fittings, without spare fittings	6/6 „
„ 3.— „ "DEMIBLANC"* glass, black fittings, two brushes, each in a box	4/6 „
„ 3A.— „ „ „ with tube brush	4/- „
„ „ „ „ „ twelve in a box	3/3 „
„ „ „ „ „ loose in bags	3/- „

* "Demiblanc" glass is a speciality of our own, between white and green, hardly distinguishable from white. No other make can equal it.

A NEW LINE.—OXIDISED METAL SCENT BOTTLE, WITH SPRINKLER.

4/ dozen. Wonderful Value.

BE PREPARED FOR THE WINTER—IT IS CLOSE AT HAND!!

A1 Anti-Catarrh Salts.
6*d.* Watch .. .. 4/ doz.
6*d.* Actinic green .. 3/9 „
1/ „ .. 6/6 „

A1 Chilblain Tubes. Attractively carded, 3/6 per doz.

A1 Winter Socks. 1 dozen on card. Assorted sizes, 3/8 doz.

A1 Menthol Influenza Snuff. 1/8 doz. on card.

A1 Menthol & Cocaine Toothache Tubes. 3/6 doz. on card.

A1 6d. POCKET DRY INHALER.—Simplicity itself, yet of immense value. 1 dozen on card. Filled with Camphor, 3/9 doz.; empty 3/ doz. Other medicaments can be readily introduced.
For Asthma, Chest Affections, &c.

SALVE POTS.
A neat squat wide-mouth cut jar, 4/ dozen. New and very saleable.

MEDICATED CIGARETTES.

Stramonium	1 doz. in box		5/6
„	2 „	„	9/
Cubeb	1 „	„	6/
„	2 „	„	10/

A1 MENTHOL OINTMENT.
7½*d.* size, 5/9 doz. on card
1/1½ „ in blue pots, 8/ doz.
without doubt a wonderful application.

A1 SPECIAL BRONCHIAL LOZENGE, Octagon shape.
1 lb. 2/6; 20 lbs. 2/2; 56 lbs. 2/; 112 lbs., 1/10 nett. Send for sample lb. and judge.

CHEST PROTECTORS,

Scarlet Felt, Chamois Leather and Flannel, Pine Felt, and Pino Felt lined with Chamois. For prices, write for list.

The Season's Novelty is the

"FURFELT"

Natural Grey Chest Protectors.
Single, double, and vest shape.

Double, No. 0	1	2	3	4	5	6
12/9	15/9	21/	27/	25/9	44/	55/

Special discount for quantity.

ETIENNE FRERES' PERFUMES.

In bulk, double, 7/-, triple, 10/- per 20 doz.

1*d.* tubes on card	8/- gross.
2*d.* bottle on card or boxed	14/- „
6*d.* size, cut stopper and bottle ..	4/- doz.
6*d.* „ with sprinkler	3/9 „
6*d.* „ corked and wrapped	3 6 „
6*d.* „ plain, stoppered	3/9 „

NEW LINE.

3*d.* size, fitted with sprinklers, carded or boxed	2/- doz.
*1/- „ Lundborg shape ..	1 doz., 8/- „
*1/6 „ „ „	2 „ 13/- „
*2/6 „ „ „	4 „ 24/- „

* Chemist's own name on 3 doz. lots free of charge.

☞ Attractive Easel Show-card to assist Sales.

ARTHUR W. SHIRLEY, 55 FARRINGDON ROAD, LONDON, E.C.

We beg to call your special attention to the Articles on this List, and feel sure that for equal quality the Prices cannot be beaten.

TERMS—NET CASH, MONTHLY ACCOUNT.

New Accounts must be accompanied by Remittance or London Reference.

PRICES SUBJECT TO ALTERATION WITHOUT ADVICE.

HEAD-QUARTERS FOR MENTHOL CONES.—*Prices and particulars on application.*

BRONCHITIS KETTLES.

3-Pint .. .. 1/6 each
5-Pint .. .. 1/11 „

CAMPHOR ROLLS.

Beautifully white and will not become rancid. Labels bear no name, only Brand "The Acme."

1*d.* size, ½ gross in glass top box .. .. 5/6 gross.
2*d.* „ ¼ „ „ „ .. .. 11/- „

COD LIVER OIL.

Finest Non-freezing Norwegian.

Elegantly engraved Label, 6 dozen with buyer's own name.

4 oz. bottles, Imperial	2/6 ..	Each Bottle in Cartoon.	2/9 per dozen
8 „ „	4/6 ..		5/- „
16 „ „	8/- ..		8/6 „
32 „ „	13/- ..		14/6 „

CHEST PROTECTORS.

BEST QUALITY FELT, FULL SIZE.

	1	2	3	4	5
Red or White Felt.					
Single	5/6	7/6	9/6	11/6	15/-
Double	12/-	16/-	2 /-	26/-	34/9
Flannel-lined Chamois Skin.					
Single	6/-	9/6	11/9	16/-	19/6
Double	13/6	17/6	23/9	34/6	39/-
Pine Wool.					
Single	5/6	8/-	11/-	13/6	17/-
„ lined Chamois ..	6/6	10/-	12/-	16/-	20/6
Double	12/6	16/6	22/-	27/-	35/-
„ lined Chamois ..	17/-	24/-	32/-	37/-	47/-
Pure Natural Undyed Wool. *The most perfect material made.*					
	1	2	3	4	5
Single	5/9	8/3	10/-	12/-	15/6
Double	12/9	16/6	22/-	28/-	36/-

THE ACME INHALER.

The most elegant small Inhaler made .. .. .. 12/- per dozen.

GLYCERINE JELLY.

WHITE, RED, AND AMBER.

Delicately Perfumed. Plain Labels.

1 oz., Nickel screw capped bottles .. .. 2/- per dozen.
2 oz., „ „ „ .. .. 3/3 „
4 oz., „ „ „ .. .. 6/- „

HOT WATER BOTTLES.

Best India Rubber, Nickel-plated Screws, Drab.

Size	10×6	10×8	12×8	12×10
Each	2/11	3/9	4/7	5/2
Plush covers	10*d.*	11*d.*	11*d.*	1/1
Size	14×8	14×10	16×10	16×12
Each	5/-	6/-	6/7	7/9
Plush covers	1/2	1/2	1/4	1/6

RESPIRATORS.

No. 702/c. Cork Respirators .. .. 5/6 per dozen.
702. Perforated Silver Plated .. .. 7/- „
703. Silver Plated Gauze, two thicknesses .. .. 10/9 „
704. Double Plated Gauze and perforated plate above.. 16/- „
705. Ditto, Ditto, below .. .. 16/- „
706. Gold Plated Gauze and perforated plate above .. 23/- „
707. Ditto, ditto, below .. .. 23/- „

All Nos. except 702/c each in glass top box.

TABELLÆ.

COMPRESSED TABLETS. Detailed List on application.

Pot. Chlor., in flat fancy boxes, 40 Tablets in each .. .. 1/6 per dozen.
„ „ and Borax, in round ditto, ditto.. .. .. 2/3 „

Tablets also supplied in bulk.
The majority of cheap Tablets contain only 30 in each box.

THE BRONCHIAL INHALER.

(REGISTERED.)

A perfect Inhaler, equal to Nelson's .. .. 8/6 per dozen.
The best and most effective small Inhaler made.

If you have not seen our New Illustrated List, YOU MUST! Write for Copy AT ONCE.

HOCKIN, WILSON & CO.,

Wholesale Druggists, Druggists' Sundriesmen, and Surgical Instrument Makers and Dealers,

13 to 16 NEW INN YARD, 186A TOTTENHAM COURT ROAD, LONDON, W.

And at **MANCHESTER.**

FULL LIST OF SUNDRIES, &c., ON APPLICATION.

SYR. HYPOPHOS. CO., FELLOWS

CONTAINS THE ESSENTIAL ELEMENTS of the Animal Organisation—Potash and Lime;

THE OXIDISING AGENTS—Iron and Manganese;

THE TONICS—Quinine and Strychnine;

AND THE VITALISING CONSTITUENT—Phosphorus: the whole combined in the form of a Syrup with a SLIGHTLY ALKALINE REACTION.

IT DIFFERS IN ITS EFFECTS FROM ALL ANALOGOUS PREPARATIONS, and it possesses the important properties of being pleasant to the taste, easily borne by the stomach, and harmless under prolonged use.

IT HAS GAINED A WIDE REPUTATION, particularly in the treatment of Pulmonary Tuberculosis Chronic Bronchitis, and other affections of the respiratory organs. It has also been employed with much success in various nervous and debilitating diseases.

ITS CURATIVE POWER is largely attributable to its stimulant, tonic, and nutritive properties, by means of which the energy of the system is recruited.

ITS ACTION IS PROMPT; it stimulates the appetite and the digestion, it promotes assimilation, and it enters directly into the circulation with the food products.

The prescribed dose produces a feeling of buoyancy, and removes depression and melancholy; *hence the preparation is of great value in the treatment of mental and nervous affections.* From the fact also that it exerts a double tonic influence, and induces a healthy flow of the secretions, its use is indicated in a wide range of diseases.

NOTICE—CAUTION.

The success of Fellows' Syrup of Hypophosphites has tempted certain persons to offer imitations of it for sale. Mr. Fellows, who has examined samples of several of these, FINDS THAT NO TWO OF THEM ARE IDENTICAL, and that all of them differ from the original in composition, in freedom from acid reaction, in susceptibility to the effects of oxygen when exposed to light or heat, IN THE PROPERTY OF RETAINING THE STRYCHNINE IN SOLUTION, and in the medicinal effects.

As these cheap and inefficient substitutes are frequently dispensed instead of the genuine preparation, physicians are earnestly requested, when prescribing the Syrup, to write "Syr. Hypophos. FELLOWS."

As a further precaution, it is advisable that the Syrup should be ordered in the original bottles (4/- or 7/-): the distinguishing marks which the bottles (and the wrappers surrounding them) bear can then be examined, and the genuineness—or otherwise—of the contents thereby proved.

WHOLESALE AGENTS—

BURROUGHS, WELLCOME & CO., SNOW HILL BUILDINGS, LONDON, E.C.

FRIENDLY TALKS WITH THE TRADE.

THE ETHICS OF BUSINESS.

The introduction and the manufacture of pharmaceutical preparations, notably of "Tabloids," has done much to increase the business of the dispensing pharmacist. We have, by strenuous endeavours and extensive expenditure of capital, brought many preparations of first-class quality prominently before the notice of the Medical profession of Great Britain, and chemists generally know that many physicians who had been in the habit of *dispensing all their own prescriptions* now in a good many instances prescribe the "Tabloids" and other of our pharmaceutical preparations. If we are asked why they do so, we would reply, it is because they find the purity and excellence of our goods to be unsurpassed by any similar preparations whatever, and because they can ensure uniform therapeutic effect. These, then, being the chief considerations in the mind of the physician, we would ask pharmacists generally whether

SUBSTITUTION IS NOT A FRAUD?

Many instances have come to our notice where chemists who have received prescriptions for the "Tabloids" have substituted inferior products in place of them. Those goods when dispensed and carried in the pocket of the patient for only a short time were discovered by him to be broken to fragments, causing disappointment both to the patient and to the physician. Having had so long an experience in the manufacture of "Tabloids," we can safely say that our products are not to be surpassed in any way either in quality or appearance. They are supplied at such a reasonable rate in comparatively small quantities, thus obviating any dead stock to the dispensing chemist, and ensuring him a substantial profit in dispensing. The following independent report from the analytical department of the "Monthly Therapeutic Review" indicates at once the Unique Characteristics of the compressed "Tabloids":—

"Tabloids" of Sulphonal, Salol, &c.—*These are some of the forms of soluble "Tabloids" of compressed drugs, which Messrs. Burroughs, Wellcome & Co. have been instrumental in bringing before the profession. We have carefully tested them, and find that they readily soften, but not too rapidly break up when placed in water. They have the advantage, too, of not undergoing premature disintegration in the presence of a moist atmosphere. We have made various experiments for the purpose of testing this point, with the result that the "Tabloids" have remained perfect and unaffected in the presence of air extensively charged with aqueous vapour.*

The chief consideration for the pharmacist is to increase his profits, and he can most assuredly attain this end by making the "Tabloids" a prominent feature in his business. It certainly pays him better to supply a sixpenny or one shilling bottle of "Tabloids" than it does to supply a quarter or half an ounce of unsatisfactory material for one or two pence. The penny trade in the business is the most reprehensible procedure. Our business relations are strictly confined to chemists and wholesale houses, and we look to them to protect our interests in the same way that we endeavour to protect theirs, namely, by maintaining the prices of our goods and by supplying the demand with *bona fide* products that we have created. A complete price-list of B. W. & Co's Pharmaceutical products and Sanitary appliances will be sent post free on application. Any chemist guaranteeing to continuously stock our goods will be supplied with suitable literary matter bearing his own name and address, show-cards, and samples, thus enabling him to inform the profession without cost to himself that he, having a stock of such goods, is able to dispense them without delay.

BURROUGHS, WELLCOME & CO., SNOW HILL BUILDINGS, LONDON, E.C.

"VASELINE" SOAP.

(REGISTERED TRADE MARK)

Sample Box Three Dozen Tablets, 9/- Carriage Paid.

NEW STYLE.

Each Tablet in Card Case.

The Best Emollient in the World must be the Best Basis for Toilet Soap. **33/- PER GROSS TABLETS.**

CHESEBROUGH CO., 42 Holborn Viaduct, LONDON, E.C.

Proprietors and Sole Makers of the "Vaseline Preparations."

"BLUE SEAL," our regular 6*d.* size, without Card Case, in Boxes of one gross, 32s. net.

ZYMINE PEPTONISING POWDERS

(FAIRCHILD).

THESE are packed in glass tubes, hermetically sealed; each tube contains sufficient Zymine (Pure Pancreatin) and Alkali to completely digest a pint of milk or beef tea. Explicit directions are given with each package for the preparation of foods suitable for infants and invalids. *These Powders being packed in glass, can be exported without fear of deterioration.* Zymine is also supplied pure in ¼-oz. or 1-oz. bottles; each been fitted with a tiny measure suitable for estimating the exact amount of Powder necessary for predigesting a pint of milk, &c. For internal use Zymine is best taken as "Tabloids." Zymine Tabloids, 2 grs., or Compound Zymine Tabloids (Zymine, Bismuth, and Ipecac.).

Peptonising Powders (Fairchild) are supplied in boxes of 1 dozen, at 14*s.* per dozen boxes; Zymine in ¼-oz. and 1-oz. bottles, at 20*s.* and 60*s.* per dozen; Zymine Tabloids, 2 grs., in bottles of 25 and 100, at 18*s.* and 48*s.* per dozen; Compound Zymine Tabloids in bottles of 25 and 100, at 18*s.* and 48*s.* per dozen. *Prices subject to usual discount.*

BURROUGHS, WELLCOME & CO., Snow Hill Buildings, LONDON, E.C.

DRAPER'S INK (DICHROIC)

THE NEW BLACK INK, different from anything else ever produced.

Writing becomes a pleasure when this Ink is used. It has been adopted by the principal Banks, Public Offices, and Railway Companies throughout Ireland.

It writes almost instantly full black.
Does not corrode Steel Pens.
Dries rapidly on the Paper.
Is cleanly to use, and not liable to blot.
Flows easily from the Pen.
Blotting-paper may be applied at the moment of writing.

In Jars, 6d., 1s., and 2s. each.

Can be obtained, in London, through **Messrs. Barclay & Sons,** Farringdon Street; **W. Edwards & Son,** 157 Queen Victoria Street, E.C.; **F. Newbery & Son,** Newgate Street; **S. Maw, Son & Thompson,** Aldersgate Street; **Hayden & Co.,** 10 Warwick Square, Paternoster Row; **Hovenden & Sons,** City Road; **Ayrton & Saunders,** Duke Street, Liverpool; **Goodall, Backhouse & Co.,** Leeds; **Jno. Heywood,** John Dalton Street, Manchester; **James Hemington,** 6 Moor Street, Birmingham; **Henry Hodder,** Broad Street, Bristol.

BEWLEY & DRAPER (Limited), DUBLIN.

See "CHEMIST AND DRUGGIST," December 15th, 1874.

Benger's Food.

For Infants, Children, and Invalids.

GOLD MEDAL AWARDED—HEALTH EXHIBITION, LONDON.
HIGHEST AWARD—ADELAIDE, 1887, and MELBOURNE, 1888.

The Lancet describes it as "Mr. Benger's admirable preparation."

The London Medical Record says: "It is retained when all other foods are rejected. It is invaluable."

The British Medical Journal says: "Benger's Food has by its excellence established a reputation of its own."

The Illustrated Medical News says: "Infants do remarkably well on it. There is certainly a great future before it."

Benger's Food is sold in Tins at 1/6, 2/6, 5/, & 10/, by Chemists, &c., Everywhere.

Wholesale of all Wholesale Houses.

THE CHEMIST AND DRUGGIST

ESTABLISHED 1859.

PRINCIPAL OFFICE, 42 CANNON STREET, LONDON, E.C.

BRANCH OFFICES:

MELBOURNE AND SYDNEY, AUSTRALASIA.

Published every Saturday.

Subscription 10s. per year, payable in advance; dating from the commencement of any month.

Supplied only to persons connected with the Trade.

Post free to every country in the world. Single copies 4d. each.

Cheques or Postal Orders should be payable to EDWARD HALSE, and crossed MARTIN'S BANK (LIMITED).

For Australasian subscribers the subsidiary journal, THE CHEMIST AND DRUGGIST OF AUSTRALASIA, is included.

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PUBLISHER'S NOTICE.

A LARGE part of the advertising and literary matter of THE CHEMISTS' AND DRUGGISTS' DIARY has been sent to press this week, and the remainder of the sheets are being cleared off day by day. We shall finally close the last sheets on Saturday (this date), so that no more advertisements for this DIARY can be received.

The necessity for this expedition arises from the fact that the copies for our Australian subscribers must be despatched by the mail steamer *Ophir*, leaving London on November 6, in order that they may be delivered in all the colonies before Christmas.

SUMMARY.

WE describe a number of seasonable novelties.

THE claims of the Benevolent Fund are set forth in a letter which we print.

WE print a number of notes on recent advances and proposals in medical practice.

THE medal presented to Professor Virchow by his old pupils last week contained 6 lbs. of pure gold.

DR. GEORGE WATT has written a valuable paper on India opium, which forms the basis of an editorial article.

THE attractions of American pharmaceutical association meetings are fairly brought out in the article on New York pharmacists.

MR. HUNT, an English pharmacist resident in America, contributes to this issue an account of American pharmacy and its peculiarities.

A DENTAL FIRM has brought an action against a traveller for payment of the samples supplied to him. They failed to get an order from the judge.

MR. MABEN discoursed on Faraday at Dundee last week, and gave his audience (the Assistants' and Apprentices' Association) some sound Faradaic counsel.

MR. POND takes us to task in this issue for indicating in some cases the addition of mucilage to mixtures, and argues for the unalterable character of prescriptions.

THE Manchester Pharmaceutical Association begins its new session with a report on the old one. New office-bearers have been elected, and work will begin forthwith.

WE publish a further letter from Mr. Burroughs regarding his travels in the East, in which he speaks of the soap and wax production in Syria, as well as other matters.

IN a legal action for damages to trees caused by vapours from borax works a chemical expert was able to prove that the vapours contained traces of ammonia and borax.

WE are able to give some particulars of a curiously ingenious method adopted by a French pharmacien for building up a speciality trade without taking much risk himself.

MR. WYATT'S METHOD FOR COATING PILLS, as suggested to the Liverpool Chemists' Association, consists in black-leading them. The coating is impermeable, and is said to have a nice appearance.

THE correspondence on "Chemists and Specialities" is growing somewhat bulky. Our correspondents this week are chiefly persons who have faced the problem and solved it to their own satisfaction. Some others still seek for light.

THE appeal in the action by Mr. Thomas Beecham against Dr. McGillvray, of Glasgow, for selling the wrong pills for Beecham's, was heard in the Court of Session, Edinburgh, and the bench sustained the decision of the Lord-Ordinary in favour of the plaintiff.

IN our Paris correspondent's letter there is a graphic account of a case in which a doctor was poisoned with his own prescription (tincture of aconite) taken in a fit of bravado; and the preliminary work in connection with the re-introduction of the Pharmacy Bill is sketched.

POISONING CASES this week include several fatalities with carbolic acid, and a report of the adjourned inquest regarding the mysterious death at Shoreditch Workhouse. In this case aconite liniment had found its way into the dispensary tr. nuc. vom. bottle, and from that the fatal mixture was dispensed.

PLYMOUTH CHEMISTS, in meeting assembled, have resolved to advocate the introduction of more synonyms into the Pharmacopœia, and support Professor Attfield in the matter. Some other business was transacted, including a proposal to exclude the unqualified assistant from the definition "seller." We report the meeting under English news.

THE proprietor of five chemists' shops in Manchester has been sued for 50*l.* damages by a woman who sent to one of the branches for carbolic oil, and got carbolic acid. This she applied to her leg. The defence was that the messenger got what she sought—viz., the acid—and it was so labelled. The jury found for the plaintiff, but only awarded 5*l.* damages.

WE print the paper on Collodium Belladonnæ, B.P.C., read by Mr. Conroy at Liverpool last week. The author shows that less than 30 per cent. of the extract employed is dissolved, and less than half of the alkaloid. The formula is entirely unsatisfactory, and Mr. Conroy shows how a better collodion may be made—viz., by using a purely alcoholic extract; but more has to be done in the matter yet.

English News.

TECHNICAL EDUCATION.—The Southampton Town Council have approved of the expenditure of one-third of the fund allotted to the Hartley Institution for the current year for the refurnishing of the chemical laboratories, and other initial expenses in connection with the technical education scheme.

THE PHARMACEUTICAL LIBRARY AT CARDIFF.—With the balance accruing from the Pharmaceutical Conference at Cardiff, the local committee have decided to purchase the remaining volumes, in leather binding, of Watts's "Dictionary of Chemistry," to add to the books presented to them during the Conference week.

THE QUININE-WINE CONTEST AT SOUTHAMPTON. — Our correspondent says:—"Since I wrote to you last week quinine wine has still further declined. At the end of the week the Drug Company reduced their price to 8½*d.* a wine-bottle. Our friend the chemist followed with a drop to 8*d.*, and on Monday the Drug Company had theirs ticketed 7½*d.* And here the fight stops for the present."

NOTTINGHAM AND NOTTS CHEMISTS' ASSISTANTS' ASSOCIATION.—The annual soirée of this association was held on Friday evening, October 16, when an interesting musical programme was performed. The committee acknowledge donations from Messrs. Evans & Co.: Barron, Harveys & Co.; Hearon, Squire & Francis; Allen & Hanburys; Burgoyne & Co; Southall Bros. & Barclay; S. Maw, Son & Thompson; and Ford, Shapland & Co.

EARLY CLOSING AT BRIGHTON.—It may come some day, but the process is a lengthy one. Several public meetings have been held, and a committee, on which are several of the leading chemists, has been formed. The committee appointed a sub-committee, and the sub-committee has nominated officers for an Early-closing Association, and has arranged for another meeting. A report is being drawn up for the meeting, and it is expected that a scheme will then be propounded, which it is hoped will meet with general approval.

THE BOY AND THE SCENT.—At the Liverpool Police-court, on October 15, Frank Stephenson a boy, in the employ of Messrs. Evans, Sons & Co., was charged with having stolen seven bottles of scent, four of which he had given to Miss Phillips who lodged with his parents. Miss Phillips was charged with having received these, and the detective said he found in her room two small bottles and a large bottle; the latter, Miss Phillips said, had been given her by a gentleman, the others she got from the boy. Mr. Edwards, manager for Messrs. Evans & Co., said that there was no private mark on the larger bottle.. Mr. Stewart discharged Miss Phillips, expressing his surprise that she had ever been taken into custody. The boy he handed over to his parents, binding them over for six months for his good behaviour.

THE CARDIFF MILK SUPPLY.—The *Western Mail*, a newspaper published in Cardiff, having taken between thirty and forty samples of milk, and submitted them to analysis, declared that they disclosed adulteration to the extent of 25 per cent. and called upon the authorities to take action in the matter. A meeting of the Health Committee of the corporation was held on Saturday, when the question was discussed. Mr. Alderman Jacobs, the chairman, thought they should confine themselves to the consideration of the samples taken by their own officers. According to the official reports, in 1890, out of 57 samples of milk taken 53 were genuine; during the first quarter of 1891, 25 samples were taken and 22 were found to be genuine; in the second quarter, of 37 samples taken 35 were genuine. In cases of adulteration prosecutions were instituted and convictions obtained. After discussion the matter was referred to a special committee.

THE BRIGHTON ASSOCIATION OF PHARMACY.—A special meeting was held on Monday at Mr. Histed's cosy little arch under the King's Road. Those present included Messrs. Histed, J. R. Gwatkin, W. W. Savage, Smithson, Williamson, Blacklock, and Marshall Leigh (Hon. Sec.) The first business was the re-election of Mr. Gwatkin as local secretary to the Pharmaceutical Society. A letter was read from the Junior Association enclosing a resolution agreed to by the body to the effect that the prizes offered by the Senior Association should be competed for by unqualified members of the Junior Association, the subject to be "theoretical inorganic chemistry as required in the Minor examination of the Pharmaceutical Society." This arrangement was approved, and it was suggested that if the presentation of prizes in chemistry secured a good competition and worked satisfactorily, prizes for botany subjects should be offered during the summer months. Arrangements were then discussed for the annual ball, to be held in January next.

DRINK OR ETHER?—At the Stratford-on-Avon Police-court, on Monday, a defendant named Walton, who was charged by the police with drunkenness on Sunday night, October 11, called a partner in the firm of Flower & Sons, who said the defendant was employed at their brewery, and on the day named was for six hours in charge of a machine which gave off ether fumes. Witness explained that it was necessary occasionally to remove a cap off the machine, whereupon the air in the room would be charged with ether. Superintendent Simmons asked witness whether ether would cause a man to become helpless and to make use of bad language. Witness replied that he presumed the effects upon a person would be exactly similar to those produced by alcohol. Defendant's wife said she had known her husband come home and complain of the effects of ether and fall asleep in his chair. Defendant admitted having had "two or three pints of beer" that day, and another pint when he left off work. The magistrates were a long time considering the case but ultimately fined the defendant 2*s.* 6*d.*, remitting a portion of the costs.

BIRMINGHAM NEWS.—Our correspondent writes:—Mr. Barclay set sail from New York on Monday last, and is expected to address his constituents on municipal matters during the coming week. He is opposed by a very strong faction under Mr. Cuthbert.

Messrs. Arblaster & Churchill have had a telephone call office erected at their pharmacy, and a neat finger-post, projecting a foot or more, indicates the fact.

There were three pharmaceutical candidates for the post of materia medica demonstrator at the Queen's College, and the one appointed obtained it by a majority of two votes.

The following prescription was handed in to a local chemist, and sent out with a yellow precipitate, which, being for the eyes, was not what was intended:—

Liq. hyd. perch.	℥iss.
Pulv. A. borici	ʒij.
Glycerini	ʒij.
Aquæ ad	℥iv.

Was borax used instead?

APPLIED CHEMISTRY.—James and Albert Gorman and Richard Price, sporting young men appeared before Mr. Hannay on remand on October 15, charged with conspiring to cheat certain bookmakers. Mr. W. Benson, chemist, of Great Portland Street, said Mr. Overall, a bookmaker (who had previously given evidence), called on him and handed him a paper in April last. The paper had on it the figures "20*s.*," and under the figures was the word "Dainty." He applied a solution of mucilated starch to the paper, and gradually the words "King of Diamonds" appeared on the paper. In another case a Mr. Parnell, alleged that Albert Gorman attempted to obtain 5*l.* 10*s.* from him in April last. He went up to witness in his shirt-sleeves and represented that he had come from a tradesman up the Seven Sisters Road, whom the witness know. He handed witness a sovereign and a paper on which was written "Florence St. John, 20*s.* to win." That was half-an-hour before the race in which she was to run. When witness looked at the paper directly afterwards he found the name of the horse had changed to "Far Niente," which was the name of the horse which had won a race about an hour earlier. The next day the prisoner Albert called on him for 5*l.* 10*s.*, which he refused to pay. An assault case, already reported, resulted. Mr. Freke Palmer, who conducted the prosecution, invited the magistrate to see the fading operation demonstrated. Inspector Banister then poured some water on to the solicitors' table, and

dipping the paper containing the words "Far Niente" on it into the water, the words "Florence St. John" immediately appeared. Mr. Palmer: That's how it's done, sir. Mr. Hannay: Yes; ingenuity worthy a better cause. The prisoners were committed for trial.

TRADE MEETING AT PLYMOUTH.—A meeting of Plymouth chemists, convened by Mr. Freeman Hunt, the local secretary, was held at 106 Old Town Street, on Friday last, to consider the advisability of introducing synonyms into the B.P. or otherwise; to obtain an expression of opinion as to the meaning of the word "seller" in the present Pharmacy Act; to report upon Plymouth as a centre for the Preliminary examination; and to elect a local secretary for the ensuing year. The chair was taken at 9 P.M., by Mr. A. P. Balkwill, and amongst those present were Messrs. T. Sloggett, J. Allen, S. B. Turney, C. T. Weary, R. F. Roper, A. D. Breeze, J. Barge, J. G. Netting, A. Davey, M. Goodwin, and F. W. Hunt. The secretary, in introducing the question of synonyms, said he believed it would be of great service to Professor Attfield and the Pharmacopœia Committee if an expression of opinion could be obtained from members of the trade as to their views upon the desirability or otherwise of introducing such as he would presently name into the B.P. He considered the following should at least be added, thereby securing a fixed standard as to quality. Paregoric and laudanum should, without doubt, find a place [they have already.—Ed. *C. & D.*] following them, Dover's powder, Goulard's extract, prussic acid, aquafortis, mint and peppermint water, bismuth. alb., ivory black, Ward's paste, lenitive electuary, diachylon plaster, grey powder, black wash, essence of lemon, sugar of lead, white and red precipitate powder, yellow basilicon, steel wine, opodeldoc, tincture of steel, Friar's balsam, saltpetre or nitre, brimstone, butyr of antimony, blue, green, and white vitriol. After a short discussion it was unanimously passed—"That it is desirable to introduce the above synonyms in the next British Pharmacopœia." Dealing with the next item on the agenda, the meeting felt itself not in a position to vote upon the meaning of the word "seller," but most of those present thought the fairest way would be that in the case of a qualified assistant, he should be deemed the seller—his position being better, and his salary greater, he ought to bear a fair share of the responsibility; but in the case of an unqualified assistant or apprentice, then the proprietor should be deemed the seller, and bear the responsibility. Mr. Netting thought the present state of the law was likely to bear too hardly on many good and reliable assistants, who by a mere technicality were unable to pass the examinations. Mr. Turney agreed with the last speaker, and hoped the Pharmaceutical Society would introduce a clause to the above effect in their next Pharmacy Bill. In reporting upon Plymouth as a new centre for the Preliminary examination, the local secretary said that as it became more generally known that this was now a recognised centre, no doubt many candidates would avail themselves of it. So far each examination was an improvement upon the former. At first three presented themselves, at the next four, and for October five preferred coming here. Mr. Sloggett moved, and Mr. Barge seconded, and it was carried unanimously—"That a vote of thanks be given the Pharmaceutical Society for appointing Plymouth a centre for the Preliminary examination." Mr. F. W. Hunt having during his year of office given such general satisfaction, it was felt he could not possibly be improved upon, and the meeting voted unanimously for his re-election as local secretary for the coming year. The assistance of subscribers to the benevolent fund was asked on behalf of Mary Buckell Rowan, a sister of the late Mr. James Burdwood, a chemist of the town, who was much esteemed. A vote of thanks to the chairman brought the meeting to a close.

IRISH NEWS.

SUICIDE BY MATCHES.—On October 15 an inquest was held at Dublin, by Dr. Kenny, City Coroner, on the body of Mrs. Sarah Tomlinson, aged 21, who died from the effects of drinking a decoction made from matches, salt, and water. The circumstances having been proved, the jury returned a verdict of suicide whilst in a state of temporary insanity.

DISPENSARY APPOINTMENTS.—In consequence of the resignation of Dr. Hodges, apothecary to the Queenstown Dispensary, the committee of that institution will advertise for a qualified dispenser of medicines, at a salary of 70*l.* per annum, the election of such officer to take place on November 10. Mr. Dixon has been appointed compounder *pro tem.*—The Local Government Board has officially confirmed the appointment of Mr. William White, L.P.S.I., as apothecary to the Rumford Street Dispensary, Belfast.

DRUG CONTRACTING.—At last week's meeting of the Lurgan Board of Guardians a letter was read from the Local Government Board in reference to a protest from Messrs. Nethery, Apothecaries' Hall, Dungannon, against giving the drug and medical contract to Mr. William Houston, Lurgan, though his tender was higher by 47*l.* than any of five other tenders submitted. The Local Government Board now asked the guardians to explain why they had accepted Mr. Houston's tender. The chairman said the board should formulate some sufficient and intelligible reply relating to their action for the information of the Local Government Board. An acrimonious discussion followed, in the course of which some members wanted to cancel the contract. Ultimately it was resolved to inform the Local Government Board that the contract was given to Mr. Houston by a large majority of a very large board, and should therefore be adhered to.—Three samples of medicine, as supplied to the Derry authorities, have been ordered to be submitted for analysis.

SCOTCH NEWS.

MR. R. H. MUNRO, chemist and druggist, has been appointed inspector of poor and registrar at Auchtermuchty.

INFLUENZA is hard to get out of Dundee. It is epidemic just now, and several medical men are prostrated with it, as well as many inhabitants.

DUNDEE ROYAL INFIRMARY.—Mr. William Mair has been appointed dispenser to this institution, in succession to Mr. McDonald, who is leaving for Dumfries. Mr. Mair has hitherto been assistant to Mr. Andrew Lawson, and is doing good work for the assistants' association as secretary.

GLASGOW CHEMISTS' AND DRUGGISTS' ASSISTANTS' ASSOCIATION.—At the opening meeting of this society's winter session on Wednesday evening, October 14, Mr. James Robb, the president, was in the chair, and the attendance numbered between sixty and seventy. Mr. Robb, in the course of a short speech, said the committee proposed to make the session as attractive and instructive as possible. A great deal depended not upon the syllabus, nor even on the lecturers, but upon the gentlemen who came to the meetings. He hoped, therefore, that all the members would take an active interest in the proceedings. Mr. Robb then enumerated some changes which had taken place in the executive, and afterwards called upon Dr. David Lees to deliver a lecture on "Adaptations in Flowers for Intercrossing." Dr. Lees had a very cordial reception, and his lecture was most interesting and instructive.

FRENCH PHARMACEUTICAL NEWS.

(From our Paris Correspondent.)

SUICIDE OF AN ASSISTANT.—A young assistant pharmacist named Georges Naudet, 19 years of age, poisoned himself at Orsay last Saturday by swallowing a strong dose of chloroform. This suicide is attributed to a malady from which the deceased suffered cruelly.

AN HONOURABLE CAREER.—At the banquet of the Syndicate of Pharmacists of the Manche Department, held recently at Coutances, a special gold medal was presented to the Father of the Syndicate, M. Marquez, the jubilee of whose entry into the profession the members had met to celebrate.

FOREIGN PREPARATIONS VETOED.—The Superior School of Pharmacy has vetoed the introduction into France of Anderson's preparation (a liquid herbal extract for the hair), and plasters made by L. Lusor, of Vienna. The reason given

is that these products are not to be found in any authorised pharmacopœia, and that the component substances are not specified, as required by French law.

THE COMPETITIONS FOR SCHOLARSHIPS in pharmacy will commence at the Superior Schools of Pharmacy and the Mixed Faculties of Medicine and Pharmacy on Tuesday, October 27. The regulations for this examination comprise a note stating that those candidates who have taken the full degree of Bachelor of Arts or Bachelor of Sciences with the mention "excellent" can obtain a year's scholarship without competition.

OBITUARY.—The death of M. F. C. Mayet, an ex-president of the Paris Society of Pharmacy, was mentioned at the last monthly meeting of that body. He was an active member of many scientific societies, and for services on the Codex Commission of 1886 he was created a Knight of the Legion of Honour. He had relinquished his business to his son, but was interested of late years in the manufacture of an important speciality. He died at his residence at Chatillon-sur-Loire, aged 72.

FRENCH PHARMACIES IN EGYPT.—When the Commission appointed by Khedivial Decree to inspect the stocks of druggists came to the shop of a French chemist in Alexandria at the end of last week, they found the premises closed, and the dragoman of the French Consulate-General awaiting their arrival. This official informed the Commissioners that he was instructed to oppose their entering the shop, and that he would only yield them admission if compelled by force. The Commissioners ultimately withdrew without pressing the matter further.

THE SUPPRESSION OF FRAUD IN THE TRADE OF ALIMENTARY OILS.—Messrs. Clemencean, Raspail, and Rousse, Deputies of the Var, have presented to the Chamber of Deputies the draft of a law aiming to suppress fraud in the sale of alimentary oils. It provides that: "Every manufacturer, wholesale or retail dealer, or shipper of alimentary oils, must indicate on each vessel, of whatever kind, the nature of its contents, or, if the oil is adulterated, the nature of the composition." The same announcement must also be made on all bill-headings, carmen's sheets, &c. The penalty for an infraction of this clause will be imprisonment for from six days to one month and a fine of 1*l.* to 40*l.*, or to one of these penalities alone. Every carrier, by land or water, must reproduce the same designation on his books, invoices, &c., under pain of a fine of 1*l.* to 20*l.* Any person who shall knowingly offer for sale, sell, export or import, under the name of pure alimentary oils, any adulterated oils, whatever may be the proportion of the adulteration, will be subject to imprisonment for from six days to six months, and to a fine of from 2*l.* to 120*l.* Any person having a supply of adulterated oil who cannot indicate the name of the vendor or carrier, will be considered a party to the adulteration. In case of repetition of an offence within a year the maximum penalty will always be applied.

MORPHINOMANIACS.—A woman was found in agony on the Boulevard de la Chapelle last week, and though at once conveyed to the Lariboisière Hospital, she died almost immediately. Death is attributed to the abuse of morphine. The Parisian journals comment upon this as being the first case where a morphinomaniac has been picked up dying in the street. A case, which was the result of the morphine habit, was tried recently before the Seventh Tribunal Chamber. A young woman addicted to morphine procured her favourite drug from a pharmacist by means of a prescription. She declined to pay his bill when presented, stating that the doses were delivered without doctor's prescription, and had resulted in anæmia to the patient, who had only regained her strength by a very expensive treatment. The judges, however, did not admit this defence, and the morphinomaniac was ordered to pay the pharmacist the amount due, together with the costs of the trial. The judgment laid down that the drug was supplied upon a prescription, in conformity with the law of 1846. The law gave the pharmacist no means of determining whether the signature affixed to a prescription is that of a doctor. Besides which, it is easy for a client to deny that a prescription has been handed to a pharmacist, as the latter is obliged to return the recipes to the patients. In this case there were not only charges for morphine, but also for antipyrin and ointments; and, admitting that the young woman had presented a false prescription, she would be an accomplice in attempted fraud, from which she could not extricate herself by refusing to pay for articles which she admitted were duly delivered.

POISONED BY HIS OWN PRESCRIPTION.—The dramatic and somewhat mysterious death of Dr. Bergeron, a Parisian practitioner, whose name was recently much mentioned in connection with the case of extortion of signatures from a demented person under his care, has attracted much notice. On Thursday night last he was, with several of his acquaintances, at the Café du Rocher, Avenue de l'Alma. One of his friends, M. Chédeville, complaining of a sore throat, the doctor remarked that there was nothing like aconite for giving speedy relief, and pencilled on the back of his visiting-card, "Tincture of aconite root, 15 drops after each meal." Signing his name below, he passed the card to M. Chédeville. The messenger of the café took this prescription to M. Broca, pharmacist, 13 Rue de la Trémoille, who recognised the signature, and a small bottle labelled "Alcoolature d'Aconit," containing about 10 grammes, was duly handed to the doctor. He poured some 15 drops into his friend's glass and 10 into his own. The friend expressed the fear that the dose might be too strong, but Dr. Bergeron repeated his eulogy of the medicine, adding: "I give my mother as much as 40 drops, and have cured Coquelin the actor by this remedy. See," concluded he, pouring another 10 drops or so into his own glass, "I will drink as much myself." Both gentlemen drained their glasses, but it is said that the doctor prevented his mistress, who was present, from partaking of the drug. The three dined together, but M. Chédeville complained of a pain in the epigastrium during the meal. The doctor gave several cups of coffee, very hot and very strong, to his friend, and saw him safe home. He does not appear to have suffered seriously; but Dr. Bergeron, who had refused the coffee himself, was taken ill in the cab in which he conducted his mistress, about 11 P.M., to an hotel, and vomited freely. Once arrived at the hotel, the young woman appeared to have done her best to urge him to send for medical assistance, but he held her so tightly in his agony that an hour had elapsed before she could call the hotel servant. Dr. Audiger arrived about 1 P.M., but he found Dr. Bergeron already dead. The inquiries instituted by the Police Commissary indicate 2½ grammes as the amount of the dose taken by the victim. It is also stated that though Dr. Bergeron was not prosecuted by the police in the case referred to above, he had lost many of his clients, and was much harassed by his creditors. The facts, together with a prolonged illness and the recent marriage of a former mistress, are suspected to have somewhat unhinged his mind.

THE PHARMACY BILL, which passed a first reading in the Chamber of Deputies last March, is not dead, but is expected to come before Parliament again early next year. The General Association of French Pharmacists has lately issued a pamphlet, urging that though the measure would not provide what pharmacists would regard as an ideal law, yet they have the opportunity of receiving some useful improvements in their position. The principal questions in discussion appear to be the following:—

(1) Is the diploma of second-class pharmacist to be retained or suppressed?

(2) Should the number of dispensaries be limited by law?

(3) What distance from the nearest pharmacy should be held to entitle a country doctor to himself supply medicine to his patients instead of prescribing?

(4) Should qualified veterinary surgeons be allowed to supply medicaments for the animals entrusted to them for treatment?

The Commission proposed to do away with the second-class pharmaceutical diploma. Mr. Lockroy proposes to retain it, but would require that second-class pharmacists be confined to towns under 10,000 inhabitants, and which are not the chief towns of departments or arrondisements. Pharmacists generally desire that the diploma should be abolished. Pharmacists not satisfied with the Commission's proposal that doctors in villages where no pharmacy exists may supply medicines to patients who live two and a half miles from a pharmacy, although they (the doctors) may not keep an open dispensary; but they are afraid of another proposal in a Medical Bill, which

would allow doctors, even where pharmacies exist, to keep certain remedies, of which an official list is to be drawn up, and which they might supply to patients in urgent cases. The Commission propose to give qualified veterinary surgeons authority to prepare and deliver medicaments for the animals under their care, subject to the poisons regulations, but not to allow them to keep open dispensaries. Pharmacists, it appears, would support the Bill in this respect, but will contest the claim which certain deputies put forward for the maintenance of the existing right of unrestricted practice of veterinary surgery. Section 12 of the Bill states:—

> Simple or compound medicines, in no matter what form, may, with the exception below stated, be freely sold by the pharmacist, with his label, and upon the expressed desire of the customer; and this without rendering him subject to the penalties for the practice of medicine.

The purpose of this section is to allow the pharmacist to do legally what he already does daily—namely, to supply such compounds as camphorated alcohol for a bruise, anti-scorbutic syrup for children's mumps, syrup of tolu for colds, an aperient, &c. This proposal is, of course, desired by the pharmacists, but is opposed on behalf of medical men. Another section in the Bill proposes to allow the free sale of certain herbs to be named in the Codex, and to abolish herbalists' certificates. Pharmacists would be glad if this were agreed to, as under that document there is said to be illegally practised a good deal of pharmacy. Another point on which there is some dispute is the supply of medicines at low prices to hospitals, &c, for the use of the poor. Pharmacists are willing to agree to some conditions of this kind, but they want to have some direct control over the distribution of such medicines, and this they are likely to get.

Foreign and Colonial News.

An American Chemical Society is now a fact. The New York society which rejoiced in that name has given it to the nation, and some time ago, at a meeting of delegates from all parts, a national society was formed, with branches in various States.

The Inundated Spanish Pharmacists.—The Madrid pharmacists are raising a subscription for the benefit of their colleagues who have suffered from the recent inundations in the eastern part of the country. Thus far they have raised 1,417.05 pesetas.

Honour is Satisfied.—Apotheker K. Hawelka and Judge Stefan Tomescanyi, of Ungvár, Hungary, had a difference of opinion. Intellectual arguments being exhausted, they proceeded to back their opinions by means of a sword-duel. The apotheker was carried off the field severely wounded.

Mineral Springs in the Canary Islands.—There are three mineral springs in Grand Canary. The medicinal properties of these springs and an analysis of the water have been published in a pamphlet by Dr. Taylor, of Las Palmas. There is also a mineral spring in Hierro Island, which is said to possess powerful medicinal virtues.

Pharmaceutical Literature in Austria.—Another new pharmaceutical journal has been started in Vienna. The title of the new-comer is the *Pharmaceutische Presse*; it appears weekly, and its editor is Mr. A. Brestowski, one of the pharmacists who, two or three years ago, made a pharmaceutical trip to the Levant, the incidents of which we related at the time. There are now some nine or ten pharmaceutical journals in the Austrian Empire.

Prescription-writing.—The Austrian Minister of the Interior has promulgated an order requiring that all medical prescriptions be clearly and legibly written, so that there can be no doubt as to the medicine ordered, the amount to be taken, the directions for the patient, and the prescriber's name. The *Medical Press*, commenting upon this, says that they do not desire legislative interference in this matter as in Austria, but urge on the licensing bodies the advisability of requiring of candidates a good intelligible handwriting, and think compounding houses might make it a trade rule to refuse any prescription that was not plainly written.

The Mineral and Medicinal Springs of Europe.—A writer in the *Volkswirthschäftliche Wochenschrift* gives an interesting tabulated account of the various mineral and medicinal springs in Europe. According to this authority (whose figures are given as only approximately accurate) there are in the whole of Europe 4,530 mineral and medicinal springs, situated in 2,778 different localities. Iron is the most common constituent of the springs, no less than 1,645 containing this metal in one form or another. Carbonic acid (1,473), sulphuretted hydrogen (1,068), and common salt (1,031) follow next. Bromine occurs 438 times, iodine 224 times, arsenic 204 times. The ingredients most rarely met with in European springs are: Nitre, 14 times; boric acid and sulphate of potash, 13 times each; copper, 7 times; and phosphates, 3 times.

Unqualified Medical Practitioners in Bavaria.—In the year 1890 no fewer than 1,170 persons were prosecuted for the illegal practice of medicine in Bavaria. Of this number, 861 were men and 309 women. This total was somewhat smaller than in 1889, when the number of persons prosecuted was 1 219. Of those proceeded against in 1890, 486—including 30 chemists and druggists and 37 midwives—were more or less connected with the medical profession. The remaining 684 were persons who had had no medical training, and belonged for the most part to the class of working men. The number of clergymen prosecuted for the illegal practice of medicine was 21. The special lines of practice followed by the unqualified persons in Bavaria included "secret remedies and sympathy," which had 117 adherents; homœopathy, 71; magnetism, 12; and electro-homœopathy, 9. Tapeworm-curing was pursued by 13 enthusiasts.

A Monster Medal.—The gold medal which was presented to Professor Virchow, of Berlin, on the occasion of his seventieth birthday, last week, weighed nearly 6 lbs., and represented a value of about 350*l.* in pure gold. Mme. Virchow received a silver, and each of the Professor's children a bronze replica of the medal. The obverse shows the bust of the Professor, with the legend: "RVDOLPHVS VIRCHOW. POMMERANVS CIVIS BEROLINENSIS: AETAT LXX." On the reverse is an allegorical group representing the genius of investigation, winged, and carrying a flaming torch in the left hand, while with the right he lifts the veil of Isis. At the foot of the Isis column is a table with the representation of the Berlin Pathological Institute. In the background Science, on her lap an open volume, is seen contemplating a skull, while around her are other pathological emblems. The inscription on this side is "Omnis cellula a cellula."

Dead Sea Water as an Antiseptic.—The *Daily News* Paris correspondent gives particulars of an interesting communication which has been made by M. de Chauvean in the name of the well-known Pasteurian chemist, M. Lortel, who has long thought of turning the most accessible part of the Dead Sea into an Asiatic Rancorn, studying how, with a syphon, to bring to the top water from the bottom, which is heavily charged with calcium salts, and bromide of magnesium. Another of his ideas was to export water from the Dead Sea as an antiseptic for use in hospitals, it being reputed mortal to every kind of animal life, and necessarily, as he supposed, to microbes. But a savant whom he consulted said, "Take care, there is hardly a fluid in nature in which a virulent microbe of some sort may not find a good soil." He therefore cultivated various kinds of bacilli in the densest Dead-Sea water that had ever been fetched to his laboratory. The diphtheria, measles, scarlatina, small-pox, and other fell creatures of the animalcular world were experimented upon. All died but two, with which in forty-eight hours the fluid was alive. The one shaped like the clapper of a bell and the other like a tack nail with a round head, were the microbes of tetanus and of gangrene.

Pharmaceutical Enterprise in Argentina.—Mr. Benjamin Day, of the firm of Day H^nos y Cie., of Rosario, in the Argentine Republic, sends us full details of a scheme he has elaborated for the establishment of a pharmaceutical co-operative company in his country. This company proposes to manufacture pharmaceutical preparations, and to carry on business as wholesale druggists generally. The promoters hope to associate wholesale Argentine druggists with the company by allowing shareholder-customers an extra

15 per cent. discount upon their purchases of galenicals manufactured by the company. The capital is to be 25,000*l.* in 10*l.* shares, half of which Mr. Day will endeavour to place in the Argentine Republic, while he looks to English capitalists to take up the remainder. The raw drugs, the chemicals, the laboratory plant, the fittings, and so forth will have to be imported from Europe. Mr. Day proposes to purchase the bulk of these requirements in this country, and looks to the wholesale firms to which he would hand his orders for these goods to take part in the concern as shareholders. The draft scheme sent to us contains elaborate provisions for the control of the concern by a resident council and a London council. Mr. Day and his brother, with other Argentine druggists, are floating the scheme. The Day family have been, or are still, the proprietors of several Bóticas. They are Argentinos of English extraction. Mr. Benjamin Day proposes to pay a visit to this country shortly.

A New Fluid for Natural History and Microscope Work.—Mr. A. Haly, of the Colombo Museum, has been experimenting with carbolicised cocoanut oil as a preservative. His experience, he states, seems to show (it does not do to speak too confidently in a climate like that of Ceylon) that it is one of the most perfect preservatives known, both for form and colour. Cocoanut oil and carbolic acid freely mix in all proportions. The mixtures at present under trial are oil raised to the specific gravity of 10° and 29° below proof-spirit by the addition of acid. Whilst the gum and glycerine process is absolutely useless for any animals except certain families of fish, this mixture is good for every kind of vertebrate. The most delicate frogs are quite uninjured by it, and snakes undergo no change. The delicate plum-like bloom on the geckoes, the fugitive reddish tint on such snakes as *Ablabes humberti*, are beautifully preserved by it. Another most important use is in the preservation of large fish skins, which can be packed away in it for an indefinite period, and mounted when wanted. These skins do not require varnishing, neither do they turn brown, but although, of course, they do not preserve their sheen like fish in the oil itself, they always maintain a silvery and natural appearance, quite different from that of ordinary museum specimens. Species prepared in this way would form a most effective exhibition. It appears also to be a most excellent preservative for crustacea and the higher orders of arachnids, and also for centipedes; but it has proved a failure for marine invertebrates in general. Its absolutely unevaporable nature makes it invaluable in a tropical climate, quite apart from its other qualities. The acid also enables cocoanut oil and turpentine to be mixed together, forming a splendid microscopic fluid, in which objects may be allowed to soak without any previous preparation, and in which they become very transparent. A minute species of crustacean, of the order Copepoda, and the leg of a fly, simply laid on a slide in a drop of this fluid, and covered with an ordinary covering glass, without any cell being made or cement employed, have laid on Mr. Haly's table unaltered for ten months.

NEW COMPANIES.

Pompadour Cosmetiques, (Limited), with a capital of 1,200*l.*, in 1*l.* shares. Objects: To carry on business as manufacturers of and dealers in cosmetiques, perfumes, patent medicines, drugs, &c. The first subscribers (who take one share each) are: S. Evans, 20 Theobalds Road, W.C., solicitor; H. Young Dickinson, 56 Gray's Inn Road, engineer; G. H. Rayner, 37 Chancery Lane, patent agent; A. E. Ellen, 87 Chestnut Avenue, Forest Gate, E., clerk; F. T. Rushton, 14 New Inn, Strand, solicitor; J. R. Crellin, 82 Gurney Road, Leytonstone, gentleman; A. Bellingham, 45 Bromfeldo Road, Clapham, S.W., clerk. Registered office, 94 Regent Street, London.

Fertilisers' Improvements Syndicate.—Capital 30,000*l.*, in 1*l.* shares. Objects: manufacture and deal in nitrates, alkalies, chlorine, bleaching powders, acids, &c., artificial manures, &c. The first subscribers (who take one share each) are:—C. R. Drake, 20 Brixton Road, S.W., accountant; T. Baker, The Fairfield, Kingston-on-Thames, shorthand writer; T. B. Thomas, 28 Benedict Road, Brixton, S.W., shorthand writer; G. P. Wodlake, Royal Hill, Greenwich, cashier; A. P. Hall, 59 Gladstone Road, Walford, law student; P. W. Slack, Portman Square, W., auctioneer; and H. Butt, Mortlake, solicitor. There shall not be less than three nor more than seven directors, and the first are to be appointed by the subscribers above-named. Qualification, 100*l.*; remuneration to be determined in general meeting. Registered office, 4 New Court, Carey Street, Middlesex.

Leach, Sons & Co. (Limited).—Capital of 5,000*l.* in 10*l.* shares. Objects: To acquire the undertaking of an oil, grease, and chemical manufacturer now carried on at Corporation Street, Manchester, under the style of Leach, Sons & Co., and to deal in oils, chemicals, drugs, drysalteries, &c. The first subscribers (who take one share each) are:—W. Leach, Eaves Lane, Chorley, commercial traveller; S. Leach, Eaves Lane, Chorley, oil and grease merchant; J. H. Leach, Eaves Lane, Chorley, commercial agent; J. Leach, Eaves Lane, engineer; Eliz. Leach, Eaves Lane, wife of S. Leach; E. Gregson, Eaves Lane, provision dealer; and L. Wilson, Lyons Lane, Chorley, draper. The number of the directors, their names and qualification, shall be determined by the company in general meeting. Registered office. The Works, Corporation Street, Chorley, Lancashire.

Hassall & Co. (Limited), with a capital of 2,000*l.* in 1*l.* shares; to acquire the undertaking of a wine and spirit merchant, mineral-water manufacturer, brewer, distiller, &c.; and also to carry on business as manufacturers of drugs, essences, chemicals, &c. The first subscribers (who take one share each) are:—W. Whiteley, 41 Corporation Street, Manchester, wine merchant; W. Simpson, 307 Fairfield Road, Droylsdon, manufacturer; C. Wright, 449 Stockport Road, Manchester, manager; E. F. J. Coleman, 133 Strangeways, Manchester, general manager; F. Hirst, 38 Industrial Street, Todmorden, clerk; A Hassall, Bowes Park, London, manufacturing chemist; and W. H. Seward, Bowes Park, traveller. There shall not be less than two nor more than five directors. The first are W. Whiteley and W. Simpson. Qualification—other than first directors, whose qualification is not specified—25*l.* Remuneration of first directors, 25*l.* each per annum. Registered office, 41 Corporation Street, Manchester.

Thomas Farmer & Co. (Limited).—Capital of 50,000*l.*, in 3,000 preference shares of 10*l.* each, and 2,000 ordinary shares of 10*l.* each. Objects: To acquire as a going concern the business and goodwill of Thomas Farmer & Co., of Hall's Wharf, Victoria Docks; and to carry on in all its branches the business of a manufacturer of chemicals, oil of vitriol, muriatic acid, nitric acid, and artificial manure, &c. The first subscribers (who take one share each) are:—T. F. Hall, Billiter Buildings, E.C.; J. S. Smithson, Billiter Buildings, E.C.; R. England, Billiter Buildings, E.C.; D. M. Paton, Billiter Buildings, E.C.; T. B. Jones, 70 Gracechurch Street; T. S. Jones, 70 Gracechurch Street; H. J. Smith, 3 Salter's Hall Court. There shall not be less than two nor more than five directors. The first shall be T. F. Hall and J. S. Smithson. The qualification of T. F. Hall shall be the holding of not less than one-half of the issued ordinary shares; qualification of J. S. Smithson not specified. Remuneration to be determined in general meeting.

The Russian Spratts' Patent (Limited).—Capital, 120,000*l.*, in 100,000 ordinary shares and 20,000 preference shares of 1*l.* each. Objects: To acquire patents, trade-marks, business, &c., from Spratts' Patent (Russia) (Limited), and to carry on business as provision merchants, &c., manufacturing chemists and druggists, and the breeding and sale of stock, &c. The first subscribers (who take one share each) are:—W. Bird, 7 East India Avenue, merchant; R. F. Alexander, 2 Budge Row, gentlemen; R. Baelz, 14 St. Mary Axe, merchant; G. F. Rogers, 5 Great Winchester Street, engineer; H. T. Nell, 5 Great Winchester Street, secretary; C. Brown, 5 Montague Road, Leytonstone, clerk; and H. W. J. Tracy, 22 Blue Anchor Lane, Bermondsey. There shall not be more than five nor less than two directors, and the first are W. Bird, R. Baelz, G. F. Rogers, and A. F. Alexander. Qualification, 250*l.*; remuneration, chairman 150*l.* per annum, and each other director 100*l.* per annum, and a further sum of the like amount in each year when the company shall pay a dividend of 10 per cent. Registered office, 63 Cornhill, London.

BURROUGHS, WELLCOME & CO.

MANCHESTER PHARMACEUTICAL ASSOCIATION.

THE members of this association held their annual general meeting on the night of October 14 in the rooms of the Chemical Council, Victoria Hotel, Manchester, Mr. Harry Kemp in the chair. The hon. sec. (Mr. H. Wilson) submitted the annual report as follows:—"During the past year six ordinary monthly meetings have been held with average attendances. The council view with satisfaction the visit of Mr. Carteighe to this city in October last, and cannot but feel hopeful that the address, which was listened to by over 200 persons, will have a beneficial effect on the pharmacists of the district, and serve to cement still more closely the bond which exists between members of the trade and the Pharmaceutical Society. Your council regrets to have to refer to the death of Mr. W. Scott Brown, who had held the office of president for a great number of years. Although prevented by illness from attending the meetings, his valuable advice and aid when sought were freely given; and your council desires to place on record its deep sense of the loss the Association has sustained by his death. Your council refers with satisfaction to the scholarship which has been founded by an anonymous donor in connection with this Association; and it is hoped that employers in the special districts mentioned in the conditions may stimulate their pupils to an effort for this valuable prize. The council would also draw attention to the following, viz.: an entrance exhibition of 10*l*, a scholarship of 10*l*., and a prize of 5*l*, given in connection with the pharmaceutical classes at the Owen's College. The council hope that these prizes—two of which have been given by members of the Association—will stimulate the efforts of the students of the district. The council also desire to draw attention to the unusual facilities granted by the authorities of the Owen's College to students of pharmacy, and hope that these may be largely taken advantage of."

The adoption of the report was moved by the chairman, seconded by Mr. G. S. Woolley, and agreed to. The report of the treasurer, Mr. G. S. Woolley, which showed a satisfactory balance in hand, was received and adopted on the motion of Mr. W. Wilkinson, seconded by Mr. G. W. Pratt. The following gentlemen were elected to form the council for the ensuing session, viz.:—Mr. W. Wilkinson, Mr. F. B. Benger, Mr. G. S. Woolley, Mr. J. Botham, Mr. W. Bowden, Mr. W. Arrandale, Mr. W. Stones, Mr. H. Wilson, Mr. Westmacott, Mr. H. Kemp, Mr. W. Kirkby, and Mr. G. Booth. For the session which has been thus entered upon no definite programme has yet been arranged. No papers have been promised except one by Mr. Kirkby, which will take the form of a lantern lecture on the anatomical characters of the official plants. It is expected that this lecture will prove a very interesting one, and arrangements are being made to secure the use of the Memorial Hall for the occasion.

DUNDEE CHEMISTS' ASSISTANTS' AND APPRENTICES' ASSOCIATION.

THE third session was commenced on Thursday evening, October 15, in the Gilfillan Memorial Hall, Dundee, when an address was delivered by Mr. Thomas Maben, F.C.S., Hawick. Mr. Charles Kerr presided, and there was a large attendance of local pharmacists and their employés.

Mr. James Ford came from Kerriemuir, Mr. Jack from Arbroath, and Mr. T. Harley from Perth, to take part in the proceedings. Messrs. F. W. Young, F.R.S.E., and W. G. Smith, B.Sc, local science teachers, were also present.

The Chairman, in introducing Mr. Maben, briefly thanked the association for appointing him honorary president, and referred to Mr. Maben's work in connection with pharmacy as a good example for assistants.

Mr. Maben then proceeded to deliver his address. Owing to the circumstance that the day on which he was invited to address the Association was the centenary of the birth of Michael Faraday, he selected the life of that noted scientist as the theme of his address. He thought that the name of Faraday s not so familiar to-day as it ought to be, and he "could not otherwise account for the extraordinary fact that the centenary of his birth had been allowed to pass by without, so far as he was aware, a single comment by the leaders of scientific thought. Our own journals might appropriately have noticed the event, but, apparently, it had altogether escaped their notice." *

Mr. Maben proceeded to sketch Faraday's life, and, drawing lessons from it suited to his audience, said to the apprentice that "while he is an apprentice, and particularly during the early years of his apprenticeship, he has the opportunity of becoming neat, dexterous, and accurate in his work. You may be a genius, but all the more is it necessary that you should be on your guard. Being a genius, and bursting with the greatness that you feel is in you, you may be tempted to use your wings rather than your fingers, and to regard all these grosser materialities as of small account; but, beware! a slovenly, sluggish, inaccurate pharmacist will be a complete failure as a pharmacist, even though he has the brains of a Newton or Faraday rolled into one; while one who is skilful, neat, dexterous, and accurate will always command respect and, in most cases, success, even though he failed half-a-dozen times for his 'Minor.' The public know nothing about that, and, even if they did, they would think that such a persevering man deserved to be encouraged.

"The ordinary routine of an apprenticeship supplies us with unlimited opportunities in which we can bring our faculty of observation into play. Are you making seidlitz powders or supplying a seidlitz draught? What is the meaning of the blue paper and the white? Why not have only one paper? Why does the mixture of the two in solution effervesce? What is formed? What is given off? If you ask yourself these questions you are at once ushered into the mysteries of chemistry, and, having got the answers to them, if you make the information so gained your own, you will have learned a number of important chemical facts that you will never forget while memory remains. On the other hand, if you go through your two years, more or less, mixing the Rochelle salts and the soda, and weighing out the acid, without troubling yourself further about them, and similarly with other things, you will find when you come, by-and-by, to attend a class in chemistry that you will have to spend many a weary hour trying to learn what you might have been far more effectually learning during all these years. Bring your faculty of observation to bear on your work all round, for, by so doing, you will develop into an intelligent, as well as a skilful, workman; neglect this, and you may be useful as a machine, but no more." He then proceeded to advocate the manufacture of galenicals on a small scale, in view of what is now required in the Minor examination, and from this he, with comments upon the Pharmacopœia, worked round to a laudation of the Pharmaceutical Society.

In the later part of the address Mr. Maben expressed his regret that the hours of business were rather long in Dundee, and referred to the advantage of the association in utilising spare time profitably, and in equipping the members for their life's work.

The address was attentively listened to and much appreciated. At the close Mr. Kerr paid a high compliment to Mr. Maben for his encouraging remarks.

Ex-Bailie Doig, in the course of a short speech, said he remembered with pleasure a visit which Faraday had made to Dundee in connection with the Glassite body many years ago. A friend had remarked to him that the best sermon he had ever heard on the raising of Lazarus was that given by Faraday.

Mr. Frank W. Young expressed the pleasure he had in being present at the meeting, and paid an appropriate tribute to the memory of Michael Faraday.

A number of prizes presented by Mr. Peter MacEwan, London, were afterwards distributed to writers of essays on the summer excursions, by Mr. Maben. The report of the adjudicator, Mr. J. Rutherford Hill, Edinburgh, was read by the secretary, Mr. William Mair.

Votes of thanks concluded the proceedings.

* The centenary was celebrated by the Royal Institution in June, the Prince of Wales being the leader of the function, and Lord Rayleigh and Professor Dewar the lecturers. Reports appeared in this journal at the time.

Selling the Wrong "Beecham's Pills."

The Second Division of the Court of Session on Thursday gave judgment in the reclaiming note, against a decision of Lord Kyllachy in the Outer House, in the action in which Messrs. Beecham, St. Helens, Lancashire, craved interdict against Dr. Macgilvray, Norfolk Street, South Side, Glasgow, selling pills other than those manufactured by the complainers as Beecham's pills. The defence was a denial of the complainers' averments. Lord Kyllachy, in the Outer House, said he saw no reason to doubt the honesty of the respondent's disclaimer of any personal knowledge of the facts as to the sale of Beecham's pills, which he held proved, and his lordship thought that, moreover, the pecuniary motives towards a repetition of the offence by those in his employment were so slight that the complainers had not much reason to apprehend that the practice of which they complained would be continued. His lordship was, therefore, disposed to content himself in the meantime with a finding that the complainers had proved their case, and to allow the respondent to put in a minute, if so advised, undertaking that no pills would be wrongfully sold in his surgery as Beecham's pills which were not manufactured or supplied by the complainers or their agents. After that minute was put in, he would, in respect of it, find that further procedure was unnecessary. He found the complainers entitled to expenses. Against this judgment the respondent reclaimed to the Second Division.

The Division last Thursday, after hearing Mr. Maclaren for Dr. Macgilvray, and without calling on counsel for the Messrs. Beecham, adhered to the judgment of the Lord Ordinary with expenses.

The Lord Justice Clerk said he did not think it necessary to call for any reply here. The Lord Ordinary had taken the proof, and his opinion upon that proof was very decided—that the complainers had made out their case, that the respondent, by his assistant, had been from time to time selling pills, when asked for Beecham's pills, which were not Beecham's pills. Upon that matter of fact it would require a very strong case indeed to induce the Court to form a different opinion from the Lord Ordinary, who saw the witnesses and heard them give their evidence. An observation was made in the course of the speech of Mr. Maclaren, which in certain cases must have very great weight—namely, that the witnesses who were examined on behalf of the complainers were all witnesses whom Mr. Maclaren called "paid," but whom he (the Lord Justice Clerk) should call hired, for the purpose of endeavouring to discover that fraud upon the Messrs. Beecham; but his lordship thought it right to say that it was very difficult to see how such a fraud as that could in the ordinary case be detected and proved in any other way. Information reached a manufacturer of a particular article that small quantities of other articles were being sold as if they were his article; it was very difficult indeed for him to discover who the individuals were to whom they were sold, and as they probably would be used up long before he could find the people out, it would be very difficult to prove that the articles supplied were not the articles which were asked for. Therefore, when such a report got abroad, he did not see very well how the proprietors of a patent medicine like that could proceed otherwise than by getting people—people they were satisfied they could bring before the Court with a chance of their being believed—to go and make inquiry at the suspected shops, and see whether at these shops articles were sold as being their articles when in point of fact they were not. That was what was done in this case, and he saw no reason to doubt the truthfulness of the evidence any more than the Lord Ordinary had. Therefore he had come to the conclusion that they must adhere to the Lord Ordinary's interlocutor. He thought that the Lord Ordinary dealt very tenderly with the respondent when, instead of granting interdict, he allowed him to state in a minute whether he would undertake not to sell as Beecham's pills that were not Beecham's. He thought that was the proper course to take, and as the complainers had to come into court to have the wrong put right, they were entitled to expenses.

Lord Young said he did not dissent from the judgment proposed, seeing that their lordships, as he understood, were agreed that the Lord Ordinary's decision should be affirmed. But he owned that if the Lord Ordinary had arrived at a different conclusion he should have sympathised with it, for the evidence was of a character which did not command favour generally—was, even when adduced for the purpose of catching a thief or a knave, was very much distrusted by juries, and in a case like this was not regarded with any favour by him. He agreed that there were cases of clever fraud and crime in which it was quite legitimate to set a trap to catch a thief or a criminal. The kind of case with which they were most familiar was that of a thief in the post office who stole letters in numbers, and who was difficult to catch, except by a trap letter. But in such a case it was a thief they wanted to catch. He did not think that there was anything to suggest knavery or trickery of that kind in the present case. There was no evidence to the effect that any honest buyer of Beecham's pills had ever been supplied in that shop with anything except the patent article in a box. It was a woman who was sent about the country by these quack-medicine vendors who picked up children in the street to go in and ask for a pennyworth of Beecham's pills. That was not evidence of a kind which he regarded with favour; on the contrary, he regarded it with disfavour. At the same time, as their lordships concurred with the Lord Ordinary, he did not feel himself warranted in dissenting.

Lords Rutherfurd-Clark and Trayner concurred in the judgment, the latter remarking that he sympathised with the views expressed by Lord Young.

Counsel for the complainers, Mr. Dickson and Mr. Macfarlane; agents, Miller, Robson & Co., S.S.C.

Counsel for the respondent, Mr. Jameson and Mr. Maclaren; agents, Mackenzie, Innes & Logan, W.S.

A Druggist's Responsibility.

On Saturday last, in the Salford Court of Record, before Mr. H. W. West, Q.C., Recorder, Mrs. Mary Pemberton, a slipper-maker, living in Clough Street, Oldham Road, brought an action against Mr. J. R. Lateward, proprietor of five chemists' shops in Manchester, to recover 50*l.* for injuries alleged to have been sustained by her through the negligence of one of the defendant's assistants. Mr. Woodburne appeared for the plaintiff, and Mr. Sparrow for the defendant.

It appeared that the defendant had a branch shop in Oldham Road, which was managed by an assistant named James. In May last Mrs. Pemberton, who had for a long time suffered from a sore leg, sent her daughter to the shop for some carbolic oil with which to rub her leg. Instead of bringing oil the daughter brought carbolic acid, and the plaintiff, not noticing what the liquid was, rubbed her sore leg with it. The result was that the limb became black, she suffered great pain, and was unable for some time either to follow her usual occupation or do any work whatever. She was also put to considerable expense for surgical and medical attendance. Her daughter stated that when she went to the shop she asked for carbolic oil, and this statement was corroborated by a woman named Whelan, who was in the shop at the time, and who said she heard the girl use the word "oil" three times. Both women alleged that James was the worse for liquor at the time.

For the defence Mr. Sparrow submitted that it was the girl who made the mistake, and not the assistant. James gave the girl what she asked for, placed a label upon the bottle bearing on it the words "carbolic acid" and "poison;" and if Mrs. Pemberton, in spite of these precautions, used the acid, he contended that she had no remedy.

The defendant was called and gave his assistant a good character; and James himself denied both that he was drunk and that the girl asked for carbolic oil. Evidence was also given to prove that if Mrs. Pemberton had been in the habit of using carbolic oil she ought at once to have seen from the difference in the colour that the liquid supplied by the chemist was not what she had been accustomed to use.

The jury found for the plaintiff, but only awarded her 5*l.* damages, as they believed that her witnesses had been guilty of considerable exaggeration in their statements.

Never Sue a Broker.

In the City of London Court, on October 16, before Mr. Commissioner Kerr and a jury, Joseph Griffin, 6 Robert Street, Limehouse, E., sought to recover the sum of 50*l.* for personal injuries sustained (while unloading a cargo of nitrate of soda), which were alleged to have been caused by the men in the service of the defendants, Messrs. Jacobs & Son, chemical brokers, 14 St. Mary Axe, E.C. Mr. A. H. Ruegg appeared for the plaintiff, Mr. Holman for the defendants.

The plaintiff's counsel said on May 15 he was employed in unloading from the steamer *Rollo* a cargo of nitrate of soda. The nitrate of soda was contained in bags weighing about 2 cwt. to 3 cwt.; one of these bags was allowed to fall into the barge where the plaintiff was standing, felling him to the ground and causing such injuries that he had to be removed to Poplar Hospital, where he stayed for many weeks, and would not be able to follow his occupation for several months to come.

The defence was that the plaintiff was in the service not of the defendants, but of Messrs. George Scissons & Co., with whom the defendants had a separate contract to do the work in question; that Scissons being independent sub-contractors, the defendants could not be held responsible. It was stated that Scissons had unloaded many cargoes of nitrate of soda for the defendants, who did not interfere with the work nor exercise any superintendence or control. Mr. Holman, in support of the defence, was anxious to read what a Scotch judge had said about the liability of merchants under the circumstances.

Mr. Commissioner Kerr: In giving law to a jury it generally makes them—well, it does not add to their intelligence. (Laughter). Perhaps it won't do them much harm; it won't do them any good, so you can read it. (Renewed laughter).

The opinion of the Scotch legal luminary having been read, Mr. Holman produced a contract between the sub-contractor and the defendants. As it was not stamped he had to pay the penalty 11*l* 2*s.* 6*d.*

Mr. Commissioner Kerr characteristically remarked: I never allow anyone to cheat the Queen.

The jury found that Scissons were independent contractors, and judgment was given for the defendants.

Travellers and their Samples.

In the Westminster County Court on Tuesday the judge had before him the case of the American Dental Manufacturing Company *v.* Harley, in which the plaintiffs sought to recover payment for certain chemical preparations supplied to the defendant. The evidence of the plaintiffs' representative was to the effect that the defendant called at the warehouse and ordered certain goods on sale or return. The order was completed in due course, and, some time after, he again called and ordered further goods, stating at the same time that he had disposed of a portion of the first order, and would pay for the whole in a short time. Time went on, and, as he failed to keep his promise, application was made for payment time after time, but all to no purpose, and ultimately the present action was brought. For the defence Mr. Harley was called, and said the plaintiffs' claim was a ridiculous one, and had no foundation. The goods for which they were now seeking to make him pay were supplied to him as samples for the purpose of introducing the plaintiffs' goods on his (defendant's) rounds. The proprietor of the plaintiff company invited him to introduce his goods to his customers, and for that purpose a few samples were supplied to him; but he was prepared to give a positive denial to the suggestion that he ever agreed to pay for them. On the other hand, the plaintiff told him he could place the samples with persons who were likely to give orders, and he did so; but he still had some of them in his possession. He had travelled for fourteen years, and had never yet heard of a traveller paying for his samples.

Cross-examined: He could not say whether or not he had sold any of the samples and received the money for them; but what he did know was that he had been the means of getting the plaintiff a lot of orders, for which he had not received a penny of commission.

The learned judge believed the goods were supplied as samples, and gave judgment for the defendant, and allowed his costs.

The plaintiffs' solicitor asked that an order might be made against the defendant for the return of the remainder of the goods, but the judge declined to make such an order, on the ground that the summons was for goods sold and delivered.

Borax Vapours.

At the Tunstall County Court, last week, before His Honour Judge Jordan, an action was heard in which the plaintiff, Dr. A. B. Great Rex, of the Avenue, Kidsgrove, sought to recover from Messrs. Mear & Green, of the Borax Works, the Avenue, Kidsgrove, the sum of 50*l.* for damage for injuries caused to trees, shrubs, and vegetation in the plaintiff's garden and premises by the steam, smoke, and borate of lime, and noxious and injurious gases generated upon and arising from the defendants' borax works. The particulars of the claim mentioned the value of about 200 trees and shrubs, including rhododendrons to the number of 140, hollies, aucubas, privet hedge, box, yew, and rose trees, including a number of specimen trees. A nurseryman gave evidence as to the injury done to the plants. Mr. E. W. T. Jones, county analyst, who had made an independent examination of the works and process, being engaged by both plaintiff and defendants, was examined by the Judge, and said he found that the vapour given off from the works was steam contaminated with a small quantity of ammonia, and probably carrying faint traces of borax products. He considered that slight damage had been done by those vapours, and there was a sensible annoyance.

For the defence, evidence was adduced to show that the plants were old, that other gardeners had not suffered, that there were other works in the neighbourhood which would be more likely to do injury, and that the plaintiff, who bought the property in 1886 for 900*l.*, had recently refused 3,000*l.* for it.

His Honour said it was a difficult case, but he was disposed to accept the evidence of the county analyst. He believed the plaintiff had taken an exaggerated view as to the amount of damages caused by the defendants' works. Plaintiff seemed to think that the whole damage was done by the borax works, when there were so many industrial concerns already in the district. His Honour thought the justice of the case would be met by a verdict for 7*l.* 7*s.* and costs, and entered judgment accordingly.

The Seller of an Adulterated Article.

The magistrates are not quite in accord in the application of the High Court's ruling as to the "seller," under the Sale of Food and Drugs Act.

On Wednesday, at the Wandsworth Police-court, Mr. W. W. Young, for the Vestry, prosecuted a lad named Edwick for selling milk, alleged to have been adulterated with 11 per cent. of water. The boy was in the employment of a Mr. Hardwick, who, it was stated, had been fined for adulteration several times.

"Why was not he prosecuted?" asked the magistrate (Mr. Denman). "I know," he added, "that under the recent decision of the Court of Queen's Bench, the actual seller may be summoned; but surely in a case of this sort, the lad who is sent out does not know what he has sold."

Mr. Young, for the prosecution, said that was his view. He considered the purveyor and the actual seller were both liable; but in a recent case at this court Mr. Plowden held that he was wrong, and dismissed the summons. As Mr. Plowden refused to state a case, he was about to apply for a mandamus to compel him to do so. It was a most important point.

Mr. Denman did not think the decision of the superior court precluded them from proceeding against the dealer.

Mr. Young: That was held in this court by Mr. Plowden, and it has been followed by Mr. Hopkins and other magistrates of the metropolis. In the face of that decision we are now going to prosecute the actual seller.

Mr. Denman: You are entitled to do so; but it strikes me that it is not hitting the right nail on the head. If you are to be limited to prosecuting a boy of straw, who probably cannot day a fine, the actual offender, who may be a large dealer, sending out oceans of this watered milk every day by boys, will escape.

On the suggestion of the magistrate, the summons was adjourned until Mr. Young should have tested the points in the law courts.

POISONING CASES.

Romantic and Commonplace.

Meant to take Whisky.

A man named Keogh, was in a tramcar near Dublin, and seeing a bottle in a fellow-passenger's pocket, which he supposed contained whisky, he took the bottle, drank from it, and replaced it in the pocket from which he took it. The liquid was poison, and Keogh died soon afterwards. The poison taken was a solution of corrosive sublimate intended to be used as a sheep-wash.

Carbolic Acid for the Complexion.

Sarah Ann Young, a domestic servant, aged 22, in the employment of a lady at Easthourne, had heard that carbolic acid was a good thing for the complexion, and, having obtained some, she drank it. She was taken to the hospital, and has recovered.

Meant to take Coffee.

Dr. Macdonald held an inquest on October 15, at St. Luke's Coroner's Court, respecting the death of Joseph Binaepfel, 68, who died from the effects of a draught of carbolic acid which he took in a dark room. His son said he believed his father mistook the poison for coffee.

Took some White Stuff.

A girl named Ellen Donworth, who used to "walk the streets" at night, was brought home dying last week, was very violent and in great agony. She said she had met a man who offered her a bottle containing some white stuff, a portion of which she drank. She was taken to the hospital, but died on the way. An inquest was held on Thursday, when it appeared that she had taken strychnine and morphia.

Carbolic the Consoler.

George Tucker, 29, a glass-blower at Messrs. Pilkington's works at St. Helens, had been on the drink, and had been fined 1*l.* for being away from his work two days. He sent a boy to Mr. Brumwell's chemist's shop for some carbolic acid "to rub his back with." Mrs. Brumwell served the acid; but she told the boy it was not for rubbing, but for disinfecting. The boy said Mr. Brumwell had served it to him before. She let him have it, but labelled it "poison." Tucker drank it, and died. The jury said he was temporarily insane, and they added their opinion that the fines at Messrs. Pilkington's were too high. Mr. Coroner Wyatt said he did not see what the jury had to do with Messrs. Pilkington's regulations.—William Robert Jennings, aged 24, was found dead on Sunday morning in some allotment ground at Sholing, near Southampton. Near him was a brandy-bottle two-thirds full, and not far off were a bottle and a glass which had contained carbolic acid. It was clear he had killed himself with carbolic acid, and the jury found he had done so while temporarily insane.

Wrong, Mr. Coroner.

An inquest was held by Dr. Danford Thomas on October 15, respecting the death of Mrs. Annie Sophia Tanqueray, 36, the wife of a wine merchant now residing abroad. The deceased resided with her mother, whose evidence was to the effect that her daughter suffered from insomnia, and she believed she took some lozenges to induce sleep; but although the witness watched her daughter very closely, she had never seen her administer any narcotic to herself. Dr. Sheldon, who saw her the day before she died, suspected she might have taken a narcotic to "soothe her." He asked her what she had taken, and she produced a bottle containing a little rose-water that could have done her no possible harm. Witness was called in after death, and the appearance which the deceased presented was that of death from a narcotic. The lozenges to which the mother had alluded, one of which witness had examined, were simply cough-lozenges, and perfectly innocuous. A *post-mortem* examination revealed traces of morphia, from the effects of which poison he had no doubt she died, but he found no bottle of any kind in the room which had contained morphia; but it was his belief that the deceased had taken one or other of the many patented medicines and soothing-syrups sold for coughs, of which morphia was an ingredient, in a sufficient quantity to produce death. Morphia-lozenges contained the thirty-sixth of a grain of that poison, and half-a-dozen of these might have occasioned death. The coroner stated that there was no restriction upon the sale of patent medicines, however poisonous they might be. The jury returned a verdict of "Death from misadventure."

Remorse.

James Mendjell, 57, a caretaker of offices in Queen Street, Cheapside, had been robbing his employers, and was under notice to leave. He took a mixture of sulphuric and nitric acids.

A Hard World for Them.

William Percy Bernit, a coppersmith, 40, had been out of employment for four months, and all through Monday week he had been looking for work, but came home a little before midnight, kissed his wife, and took cyanide of potassium.—William Mahoney, 62, injured his shoulder two years ago and had not been able to work since. All the articles in the home had gone for food; the parish authorities had allowed the couple "bread and tea for three weeks," and then offered the workhouse. This was refused. "If we could only get a cup of tea in our own home," said the wife to the East London coroner, "we were satisfied." On Thursday Mahoney went to Woodford and got a job, but was too ill to do it, and had to return home. "When he arrived he seemed greatly depressed and cried like a child." After pacing about all night in a state of great agitation, he lay down on the floor, where—having poisoned himself with laudanum—he was found dead in the morning.

Aconite in the Nux-vomica Bottle.

On September 26 we reported briefly the proceedings at an inquest respecting the death of Eliza Burley, aged 59, an inmate of the Shoreditch Workhouse, who died from the effects of poison administered to her as medicine. It appeared that deceased asked the assistant matron for a dose of her medicine, and this was given her from a bottle she had previously had medicine out of, but which had been refilled that morning in the dispensary. About an hour later she complained of a burning sensation in her throat and numbness of her limbs, but it was not observed at the time that she was seriously ill, and the assistant-matron was called. Then, however, it was too late, and the woman died. The inquest was adjourned, and was resumed by Mr. Alfred Hodgkinson on Wednesday evening. Then Dr. F. L. Norris, assistant medical officer, deposed that he had made a post-mortem examination, and found that death was due to heart-disease, accelerated by aconite poisoning. Witness prescribed for the deceased on September 9, the prescription being: "Two drachms diluted hydrochloric acid, one-and-a-half drachm tincture of nux vomica, and chloroform water ten ounces. Dose—two tablespoonfuls every three hours." Witness had tested the medicine and the contents of the dispensary nux-vomica bottle, and there was aconite in both. The contents of the nux-vomica bottle did not look like that drug, and an experienced dispenser ought to have detected the difference. Several other inmates were attacked with similar symptoms to the deceased, but they all recovered under treatment.

Joseph Lowe, a chemist and druggist, who was acting as dispenser during the absence of Mr. Lane, the permanent dispenser, volunteered evidence, and was cautioned by the coroner. He said he frequently used nux vomica in dispensing the prescriptions, but he could not remember making up the bottle produced. If he did so he would have used the contents of the nux-vomica bottle. He had had no occasion to refill the dispensing bottle of nux vomica from the stock bottle, and he did not know the particular spot where the stock bottles of nux vomica and tincture of aconite were kept, as he had had no cause to use them. He had an old inmate to fill up the medicine bottles with water, and that inmate and the doctors would have access to the dispensary. It was possible that the old man (Turner) might have filled the nux-vomica dispensing-bottle from the stock bottle, but he did not do so by witness's direction or in his presence. Witness considered the light in the dispensary bad in the daytime. He could tell that the bottle labelled "Nux vomica" contained something else now, but it was possible for him to have used it for that drug. By Mr. Clay (clerk to the guardians): He used nux vomica during the week out of the bottle produced, but no complaint was made about the medicine till the Sunday.

John William Lane, permanent dispenser at the Shoreditch Infirmary, having been cautioned by the Coroner, elected to make a statement. He deposed that he was away on a holiday at the time of Mrs. Burley's death. He used to be assisted by the inmate Turner, who would do anything that witness required him to do. Occasionally Turner would fill the dispensing-bottles, when witness had been on the steps and handed him the stock bottles. He had also handed witness the stock bottles when witness had been refilling the dispensing-bottles. Witness had never instructed Turner to refill any of the bottles during witness's absence. Turner was about seventy years old, and witness had often asked for other help in Turner's place. The Coroner: Do you consider the dispensary properly lighted?—Witness: Not in the corner where we keep the poisons. He had asked the committee two years ago to shift a chandelier so that the corner might be better lighted, but that was not done because it had been recently removed from where witness wanted it replaced. It would be possible for a dispenser to use the contents of the bottle labelled "Nux vomica" for that drug if he had his back turned to the light.

By the Coroner: Witness was assisted by a qualified chemist during six months last year when the work was very pressing. He considered that he required a permanent assistant.

John Turner, the inmate referred to, denied having in any way interfered with the dispensary bottles.

Dr. Thomas Stevenson, of Guy's Hospital, deposed that death was due to aconite poisoning. The nux-vomica bottle contained liniment of aconite as well as nux vomica, the aconite being greatly in excess of the nux vomica.

The Coroner, in summing up, said he thought the jury must come to the conclusion that the mistake, if mistake it was, arose through the dispensary being badly lighted. So far as he could see there was no evidence to prove who put the aconite into the nux-vomica bottle, but it was for the jury to decide whether any person or persons had been guilty of negligence in the matter, which would mean manslaughter. He (the Coroner) was of opinion that the guardians were mostly responsible.

The jury returned a verdict of death from misadventure, and added that they considered that the dispensary was insufficiently lighted, and that the dispenser should have a qualified assistant.

A Pound of Coal yields enough magenta to colour 500 yards of flannel, vermilion for 2,560 yards, aurine for 120 yards, and alizarine sufficient for 155 yards of Turkey red cloth.

Chemists' Assistants' Association.—The next meeting will be held at 103 Great Russell Street, on Thursday, October 29, when a paper on "B.P. Standards of Purity, Drugs and Chemicals," will be read by J. A. Ellwood, F.C.S., A.I.C. The association had a musical and social evening on Thursday, October 15, under the direction of Mr. H. H. Robins. About seventy were present.

BANKRUPTCY REPORTS.

Re John Edwards (trading as John Edwards & Co.), Chemist, Druggist, Grocer, and Wine and Spirit Merchant, High Street, Conway and Glamafon, Penmaenmawr, Carnarvonshire.

The following are scheduled as creditors:—

	£	s.	d.
Allen & Hanburys, London	50	0	0
Ayrton & Saunders, Liverpool	89	10	6
Burgoyne, Burbidges & Co., London	43	3	4
Bowen & McKechnie, London	25	2	1
Brockbank & Mellor, Liverpool	24	2	6
Brown, J., & Co, London	13	0	0
Clay, Dod & Co., Liverpool	40	0	0
Christie & Co., London	23	15	10
Corporation of Conway	22	1	0
Ellis, R., & Son, Ruthin	22	0	5
Evans, Jane, Penmaenmawr	70	1	4
Evans, Sons & Co., Liverpool	100	0	0
Foulkes, T., Conway	27	0	0
Hayward, John, Liverpool	10	0	0
Jones, D., & Co., Liverpool	33	5	0
Jones & Porter, Conway	13	17	4
Jones, E., & Sons, Conway	12	12	0
Kinloch, E., & Co., Limited, London	22	0	0
Lamb & Watt, Liverpool	10	18	0
Morgan, J., & Co., Liverpool	10	1	0
Muratti, B., & Sons, Manchester	10	11	4
Myers, H., & Co., London	13	17	3
McEachen & Co., Liverpool	30	0	0
McConnell, H. J., Limited, Belfast	30	0	0
Morrison & Son, Leith	41	15	0
Pritchard, J., Bangor	17	0	0
Roberts Bros., Liverpool	22	17	6
Roberts & Jones, Conway	23	0	0
Summerfield & Co., Limited, Liverpool	35	6	9
Summer & Co., Liverpool	24	8	0
Shore, J., & Son, Liverpool	15	0	0
Solomon, B, Mayence, Rhine	10	14	0
Titterton & Howard, London	19	11	7
Worthington & Co., Limited, Burton	500	0	0
Wyleys, Limited, Coventry	32	14	6
Williams, W., & Co., Liverpool	20	19	0
Williams, W., & Co, Chester	12	1	10
Williams, W., & Co., Conway	10	0	0
Young, E. & Co., Limited, Liverpool	123	0	0

Re Walter Warburton, Worksop and Hunslet Carr, Chemical Manufacturer.

A meeting of the creditors of this debtor, who traded as Samuel Warburton & Sons, was held at the office of the Official Receiver, at Sheffield, last week. The liabilities are estimated at 7,683*l*, less securities estimated at 3,298*l*.; assets estimated at 2,348*l*. Debtor is 64 years of age, and had been in business since he was taken into partnership by his father when he came of age. After his father's death he continued the business, and he had expended a considerable amount of money on the improvement of the works. If these could be sold as a going concern, the Official Receiver was hopeful of realising a fair amount. His examination of the books showed that they were tolerably well kept, but that debtor had never taken stock from time to time. Mr. W. G. Hawson, chartered accountant, Sheffield, who resides at Worksop, was elected trustee, and a committee of inspection was appointed.

Re Alfred Anthony Nesbit, 132 Camberwell New Road, Surrey, Analytical Chemist.

The statement of affairs filed herein shows liabilities expected to rank for dividend 3,030*l*. 0*s*. 10*d*., and assets nil. Mr. G. W. Chapman, an Assistant Receiver of the London Bankruptcy Court, issued on Thursday last his summary of this debtor's statement, and from it it appears that since March, 1885, he has only had occasional employment, and has been dependent upon loans and gifts from friends. He attributes his insolvency to the loss of his practice, partly owing to ill-health, to insufficiency of income, and to expenses incurred during the past ten years in

bringing out and developing a patent. The public examination is appointed for November 6 next. The following are scheduled as creditors :—

	£	s.	d.
Bower, Cotton, and Bower, London	62	18	4
London and County Banking Company, London ..	470	5	7
Nesbit, Mrs. Z. A. R., London	1,700	0	0
Nesbit, Mrs. Z. A. R., London	100	0	0
Tarn, Wm. Frodk., London	345	8	0
Tarn, Wm. Frodk., London	113	0	0
Whiteman, Wm. Thomas, London	236	6	0

Fully Secured Creditors.

Howard, James (executors of), Bedford	60	0	0
Howard, James (executors of) Bedford	20	0	0
Whiteman, Wm. Thomas, London	1,763	15	0
Wingfield, London	24	5	0

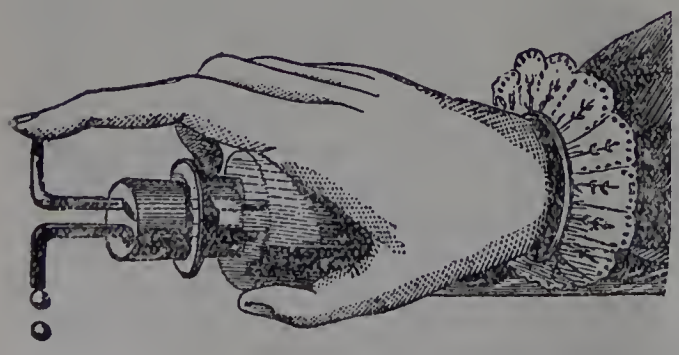
Re ROBERT YOUDE, Hyde, Financial Agent, Money-lender, and Bill-poster.

A MEETING of the creditors of the above was held in Manchester on Tuesday afternoon, and was adjourned for a fortnight in order to give time for the preparation of a satisfactory offer for a settlement. From the statement of affairs, which shows that the debtor has indulged in a great amount of speculation, we extract the following passage:—"I purchased the recipe of Harrop's soothing syrup for 100*l.* I have spent 1,400*l.* in advertising it. The manufacture is carried on at the works near the station. I carried on the Harrop's soothing-syrup business under the name of 'John Harrop.' In March, 1891, I purchased three mineral-water businesses at Hyde for 200*l.*, 500*l.*, and 700*l.* respectively. I amalgamated them, and carried them on for about a month at Simpson Street, Hyde. After spending 1,100*l.* on the concern, I sold it to the Hyde, Denton, and Glossop Mineral Water Company (Limited) for 3,000*l.*, of which I received 1,800*l.* in cash and the balance in shares." The debtor further states that from the Harrop's soothing syrup he has had a return of only 200*l.*

Notes of Novelties.

THE RELIANCE DROPPER.

THE illustration does not show anything strikingly novel in droppers, but when we come to examine it we find it is



an improvement upon an old idea. The tubes are not exactly of the same size, the dropping one being slightly larger than the other, permitting, by pressure with the finger, the size of the drop being regulated. The stopper is of cork (not indiarubber), and so shaped that it will fit any bottle, from ½ oz. to 8 oz. Each one is boxed, and retails at 3*d.* All the sundries houses stock the article.

DERMATOL.

THIS is as happy a title for a new remedy as has been coined since antipyrin was introduced into medicine. Dermatol is a subgallate of bismuth, manufactured by Farbwerke vorm. Meister Lucius & Brüning, and has been introduced as a substitute for iodoform. In appearance it so closely resembles precipitated iodoform that one expects to detect the odour of that body; but that is what dermatol essentially lacks: it is perfectly inodorous. Clinical experience so far shows that dermatol is an active antiseptic, and it has been used with success in surgical operations and in the treatment of indolent ulcers and other raw surfaces, as well as for psoriasis, eczema, and other skin-diseases. In many instances it is used as a dusting-powder, the following being a suitable combination :—

Dermatol	ʒij.
Purified talc	ʒvij.
Powdered starch	ʒi.

Mix well.

For topical application in skin-diseases and for abraided surfaces, either of the following ointments is employed :—

	I.	II.
Dermatol	ʒi.	ʒi.
Vaseline	ʒix.	ʒi.
Lanoline		ʒi.

The strength of the ointment may be increased to 1 in 5.

Messrs. Burroughs, Wellcome & Co. send us a sample of the dermatol, which is an impalpable yellow powder, insoluble in water and in the common solvents. It is put up in 1 oz. and larger tins.

NEW ABSORBENT DRESSING.

WE are indebted to Mr. Charles Arthur, of the Edinburgh Royal Infirmary, for a sample of a new antiseptic and absorbent dressing, which is being used there under the advice of Mr. Charles W. Cathcart, one of the assistant surgeons. The material is fine wood shavings, de-resinised with caustic soda, washed and dried, then enclosed in a muslin bag, the whole being charged finally with corrosive sublimate. The pad so formed lies comfortably on the skin, and it is reported that the dressing is superior, in some respects, to absorbent wool. Should any wish to try the dressing they might ask Mr. Arthur for a sample, as we understand that it is made in the Infirmary laboratory for the requirements of the institution, and is not a commercial article.

GAGE'S STELLATE HYGROMETER.

WHEN a traveller is suspicious of the dryness of his hotel bed, and wishes to apply the mirror test, he is generally faced with the problem of how to get the mirror and the attached dressing-table into the bed. The old-fashioned test has this and other difficulties, and we are not surprised that an ingenious gentleman has devised a thing that will save all trouble. This is the "Stellate Hygrometer," of which Messrs. Evans, Sons & Co., Liverpool, send us a sample. The hygrometer consists of a star-shaped colloid membrane fixed with a central eyelet to a piece of muslin, this being inserted in a cardboard case. If placed on a damp sheet the membrane absorbs moisture, we presume, for instantly one notices the rays of the star curl upwards—there can be no deception, the upward curl of the rays being so apparent. The hygrometer serves over and over again. Each one is put up in a neat pocket-case, and sells for a trifle. Messrs. Evans, Sons & Co. are the sole agents.

A STRONG CEMENT to attach glass to metal, which is not attacked by bisulphide of carbon, water, alcohol, &c., is made by dissolving gelatine in water, adding a small percentage of glycerine to render it slightly elastic, then a little bichromate of potash to make it insoluble. This is the *Optician's* idea.

Personalities.

MESSRS. E. H. WISEMAN & J. T. PALMER have purchased the business of Mr. Alfred Hornby, 50 George Street, Richmond, Surrey.

MR. H. BOWDEN, son of Mr. William Bowden, chemist and druggist, of Patricroft, has been awarded the Owen's College Pharmaceutical Entrance Exhibition.

MR. HUGH EDGSON, who has been a chemist at Nottingham for 23½ years, has removed to 2 Provincial Bank Buildings, Wightman Road, Hornsey, where he has opened a chemist's shop.

WE understand that Mr. C. J. Strother, one of the London representatives of Messrs. Meggeson & Co., Miles Lane, E.C., will shortly leave them, to represent Mr. S. Sainsbury, 176 and 177 Strand, W.C.

THE late Mrs. Elliott, of Bath, whose munificent legacies to Bath, Bristol, and other charities, amounting to about 15,000*l.* in all, have lately been announced, was a lady who delighted to do good by stealth. She was the daughter of a Bath chemist. Mrs. Elliott's donations to many objects of charity were frequent and munificent in her life, but they were in most instances strictly anonymous.

MR. THOMAS SWINDELLS, chemist and druggist, London Road, Manchester, has entered the lists as a candidate for municipal honours. In St. Clement's ward he has got an uphill fight, but it is expected that he will be able to give a good account of himself, as he is well known in the ward. To him the ward owes much that has been done of late in the way of improving its lighting arrangements, and by constituting himself a sort of amateur sanitary inspector he has helped to sweeten the conditions of life for the poor of that part of Manchester.

ONE hundred and twenty-five pounds a word is pretty good payment to get for a literary effort, and Mr. George J. Hicks, son of Mr. J. J. Hicks, the Hatton Garden philosophical-instrument maker, is the fortunate man. He supplied the italicised lines in the following verse:—

> There was an old fossil named Sloper,
> *Astronomer, Sage, Horoscoper;*
> He fell down the stairs,
> *And saw comets—in pairs,*
> That unfortunate, fruity old Sloper!

For these lines he has got the *Ally Sloper* prize of 1,000*l.*, and the rest of the 150,000 competitors are mourning.

THE Professor of Chemistry at Cambridge has got into hot water. About the beginning of this year Professor Dewar wanted to dismiss his assistant, Mr. Ruhemann, and applied to Dr. Butler (the then Vice-Chancellor) for the necessary sanction. Dr. Butler laid the matter before the appropriate syndicate, but they declined to dismiss Mr. Ruhemann without knowing why. Eventually a way out of the difficulty was found by another post being invented for Mr. Ruhemann. Professor Dewar has now published the whole correspondence "for private circulation" among the resident members of the senate. The pamphlet abounds in pleasantries in foot-notes, and is chiefly remarkable for the fact that the correspondence throws absolutely no light on the subject. The latest development of the matter is that the board, whose approval was necessary, has refused to sanction the appointment of Professor Dewar as an Examiner in Chemistry for the next Natural Science Tripos.

IN the first of the series of *Daily News* articles on life in English rural villages, which have created so much attention, the writer mentioned his indebtedness to Dr. J. C. Thresh, who acted as his guide one day. In one of the last articles mention was made of Dr. Thresh's work. Speaking of the sanitary supervision in these country places, the writer says: "The rational and satisfactory course is such as the combined boards of Chelmsford and Maldon have adopted. They have appointed a thoroughly well qualified man to the charge of the sanitary condition of their districts, giving him such a salary as will enable him to devote his whole time and attention to his duties. Quite apart from the direct action of such an officer, his educational influence with the people is immense. Nothing struck me more forcibly when I was the other day going a round from house to house with Dr. Thresh, of Chelmsford, than the instruction he was giving and the intelligence he was awakening on the importance of pure water and fresh air, and careful drainage and such matters. It is just what these people want—someone continually moving about among them pointing out what is wrong, and explaining why it is wrong, and authoritatively insisting on its being put right, for the sake of the community if not for themselves." The work which Dr. Thresh is doing in his district is, all his friends in pharmacy will be glad to hear, proving of the highest value.

Trade Notes.

MR. SQUIRE J. PITT, colonial-produce broker, has removed from 20 Mark Lane to 2 Mincing Lane, E.C.

THE Auerbach quinine factory have obtained a contract from the Dutch Government for the supply of 500 kilos. (about 18,000 oz.) of sulphate of quinine standing the test of the new Dutch Pharmacopœia.

THE wholesale drug business of C. Krieger & Co. Nachfolger, in Coblence, Germany, has been converted into a company. The proprietor, Mr. Hermann Zinke, has taken Dr. Karl Popp, of Auerbach, into the firm as a sleeping partner. Dr. Popp and Mr. Oscar Müller will sign by procuration.

SMART ADVERTISING.—The two very striking pages in last week's CHEMIST AND DRUGGIST, in which the success of the new departure in St. Jacobs Oil was chronicled were entirely drafted and planned by Mr. W. E. Geddes, the London manager of the Charles A. Vogeler Co., after a discussion with our publisher, within a single hour.

MR. VINCENT WOOD has introduced this season a material for chest and lung protectors which he calls "Natural Pure Wool Felt" or "Fir Felt"—rather a contradiction in terms. It is a dark grey felt, soft and warm, and the protectors made from it have a good finish. Mr. Wood tells us that they are taking well.

HENRY'S BRASS-POLISHING LIQUID.—We have tried this new preparation, and find it to clean brasses with great facility, and to clean them well. The preparation is a thickish liquid, of a red colour, and is made by Mr. H. Bollmann Condy, of Battersea. It is put up in wide-mouth bottles to retail at 6*d.* and 1*s.*

MR. F. FOSTER, of Scarborough, has added the Jordan Tablet Machine to the others for which he is agent. The Jordan is a machine which was favourably brought under the notice of the Philadelphia College of Pharmacy some time ago. The one for hand-power occupies small space, has powerful compressive force, and makes sizes from ½ grain to 15 grains.

TIMBURY'S EUCALYPTUS OIL.—This oil is now being introduced in this country as a speciality for retailing in the original bottles put up by the manufacturers, Timbury's Eucalyptus Oil Company, Gladstone, Queensland. The oil is distilled from the leaves of the citron-scented eucalyptus (*E. maculata*, var. *citriodora*), and should not, therefore, be confounded with the eucalyptol containing oils. It is an oil having the odour of the scented geranium, somewhat citronella-like, but has more of a true perfume than that oil. Its active constituent is citronellon. It has been used in Australia with success in the treatment of bronchial affections, and the various uses to which it may be put are fully detailed in the circulars accompanying the packages. Our examination of the oil enables us to corroborate generally the published statements regarding its chemical characters, but its popularity will rest less upon these than the skill with which it is put forward as a domestic medicine.

TO STOP BLEEDING use a solution of antipyrin, 1 in 1 of distilled water.

COLLODIUM BELLADONNÆ, B.P.C.

By Michael Conroy, F.C.S.

(Read before the Liverpool Chemists' Association, on Thursday evening, October 15.)

THIS is one of the late additions to the British Pharmaceutical Conference Formulary. The formula is as follows:—

Alcoholic extract of belladonna	5 oz.
Spirit of camphor	2½ fluid oz.

Dissolve, and add—

Flexible collodion, sufficient to produce.. ..	1 pint

Set aside, and decant the clear liquid.

These directions are simple in the extreme, but, unfortunately, the result is very unsatisfactory: the extract dissolves in the spirit of camphor, but most of it is thrown out of solution on adding the collodion, and the mixture, being of a viscous nature, takes a very long time "to settle." The sample before me, made over a month ago, has not yet cleared. Life being too short for formulæ that take up so much time, the following modification was tried, with the result that a perfectly clear preparation was produced in a very short time.

The extract was dissolved in the spirit of camphor, but, instead of adding the collodion to it as directed by the formulary, ether and spirit, in the proportions used in making collodion, were added. In other words, a mixture consisting of three parts of ether and one part rectified spirit was used instead of collodion. This was shaken up at frequent intervals during the course of one hour, and the clear solution poured off. In this perfectly clear solution the necessary amounts of pyroxylin, Canada balsam, and castor oil were dissolved. This produced an article identical with the B.P.C., formula without requiring the inconvenient and tedious settling process. The essential difference between this modification and the original formula is that the pyroxylin is added to an easily obtained and bright solution of the extract instead of the extract being added to the collodion.

I do not claim that this modification turns out a satisfactory preparation. Far from it. All that can be said for it is that it enables one to produce the article within a reasonable time. In other respects it has all the defects of the B.P.C. article. By whichever of these methods the collodium belladonnæ is prepared, one is naturally struck by the fact that most of the extract is left undissolved, and it seemed to me desirable to ascertain the quantity and alkaloidal value of the dissolved extract, as well as of the undissolved portion. For this purpose I took 5 oz. of the B.P. alcoholic extract of belladonna, dissolved it in 2½ fluid ounces of rectified spirit, and added sufficient of the collodion solvent (three ether and one sp. rect.) to produce 20 fluid ounces. This was well shaken up at frequent intervals during the course of one hour, and allowed to settle for twelve hours. The liquid portion was then decanted and found to measure 15⅛ fluid ounces. The undissolved extract, holding part of the solvent, formed a semi-solid mass, measuring 4⅞ fluid ounces, its weight being 5 oz. 260 grs.

The extract used on drying at 212° F. lost 12·5 per cent. of its weight.

One fluid ounce of the liquid portion, evaporated and dried at 212° F., yielded 16·5 grains, equivalent to 18·8 grains of the extract used.

From these figures we arrive at the following:—

	Grains
Total weight of extract used, 5 ounces	2,187·5
Weight of extract in 15⅛ fluid ounces of liquor, 18·8 × 15⅛	284·3
Weight of undissolved extract	1,903·2

On testing the alkaloidal strength of these extracts by Dunstan and Ransom's process, I obtained the following results:—

	Grains
The extract used yielded 2·34 per cent. of alkaloid, equivalent on the 5 oz. to	51·18
One fluid ounce of the liquid portion of the preparation gave 1·55 grain, equivalent on the 15⅛ fluid ounces to	23·44
The undissolved extract gave 1·1 per cent. of alkaloid, equivalent on the 5 oz. 260 grs. to	23·92

The alkaloid from the liquid portion and from the undissolved extract—23·44 grains and 26·92 grains—amounts to 50·36 grains, which, allowing for experimental error, agrees fairly well with the total alkaloidal content of the extract used, 51·18 grains.

Taking the alkaloidal contents as the basis of valuation, we find that more than one-half is wasted. This being so very unsatisfactory, it occurred to me that probably the B.P. extract was not a suitable one for this preparation. The B.P. extract is not in reality an alcoholic extract, water being used to follow the spirit in extracting the powdered root by percolation. This introduces into the extract substances that are less soluble in collodion, and which, to a very considerable extent, reduce its alkaloidal value. Accordingly an extract of belladonna was prepared with rectified spirit alone, and with this extract the same experiments were repeated, with the following results:—

On dissolving 5 oz. of this extract in 2½ fluid ounces of spirit, adding sufficient of the collodion solvent to produce 20 fluid ounces, shaking for one hour at frequent intervals, and allowing it to rest for twelve hours, 15½ fluid ounces of clear liquid were obtained. The undissolved extract holding some of the solvent measured 4½ fluid ounces, its weight being 5 oz. 145 grs.

The extract used, on drying at 212° F., lost 14 per cent. of its weight. One fluid ounce of the liquid portion, evaporated and dried at 212° F., gave 22·7 grains—equivalent to 26·4 grains of the extract used.

From these figures we get the following:—

	Grains
Total weight of extract used, 5 oz.	2,187·5
Weight of extract in 15½ fluid ounces of liquor, 26·4 × 15½	409·2
Weight of undissolved extract	1,778·3

The results on testing the alkaloidal strengths of these are:—

	Grains
The extract used gave 3·84 per cent. of alkaloid, equivalent on the 5 oz. to	84·00
One fluid ounce of the liquid portion gave 2·35 equivalent on the 15½ fluid ounces to	31·77
The undissolved extract gave 2·2 per cent of alkaloid, equivalent on the 5 oz. 145 grs. to	51·31

More of this extract was dissolved than of the previous kind, and although more of the alkaloid was taken up, still the proportion of the whole is less than in the experiment with the B.P. extract.

I quite admit that it is easier to criticise than to originate, but I hope, at an early date, to go further into the matter, and, with your indulgence, to submit to a future meeting of this association, if I succeed, a better and less wasteful formula for this useful preparation.

I may say, in conclusion, that Dunstan and Ransom's method for the estimation of the alkaloids in this extract is an excellent one—easily worked, and yielding reliable and constant results.

NOTE ON THE COATING OF IRON PILLS.

By Harold Wyatt, Jun.

(Read before the Liverpool Chemists' Association.)

THE coating of iron pills, by whatever method performed, pearl, sugar, or gelatine, is open to several objections, which are: First, the necessity of damping or varnishing the pills in order to make the powder adhere in the pearl-sugar processes; second, the use of heat, as in sugar and gelatine coating; and, third, the thickness of the coating, varying according to the skill of the operator.

There is no doubt that the use of varnish, syrup, or heat, tends to oxidise the iron salt contained in the pill, whilst the thickness of the coating, though of no consequence with sugar or gelatine coating, becomes of some moment where such an insoluble substance as talc is used; for, although we are apt to look upon it as a harmless insoluble silicate, medical authorities are far from being satisfied that its action, physiologically speaking, is *nil*, especially when it is taken into the stomach in such quantities as a number of

pearl-coated Blaud's pills exhibit when taken for a considerable length of time.

What is required of an ideal coating or protective is that it shall have no action on the ingredients of the pill or digestive economy; it shall allow the pill to disintegrate rapidly in the stomach; it shall not materially increase the size of the pill; and, finally, it shall be easily applied and be capable of a high finish.

The coating I have used for iron pills for some years past seems to me to have many of the above advantages.

It consists of a thin film of graphite or plumbago applied in the following manner:—The pills are shaken up in a box with powdered graphite until they are uniformly black, after which they are transferred to a covered glazed-ware pot, or for large quantities to a Symes pill-coater, and rotated with some force until a bright metallic lustre is obtained.

So finished, Blaud's pills are effectually protected from oxidation, are not materially increased in size, and look as if they are literally steel pills.

Another variety of coating I have used as a change where the pills are small and a thick coating is not objectionable, can be obtained by shaking them up in a warm covered pot containing a melted mixture consisting of cocoa-butter 1 part, and chocolate-powder 2 parts, throwing them out on a greased slab, and, when cool, finishing off by rotating in the Symes coater, the interior of which has been skimmed over with a little of the cocoa mixture.

To obtain a good result with either of these methods (graphite or chocolate) requires a little practice; but the appearance of the pills when finished amply repays for any expenditure of time or trouble to which one is put.

Medical Gleanings.

Burns.

We should think that there has been a serious error somewhere in attributing to a Dr. Zubofl the statement that compresses dipped in a solution of one to ten grammes of potassium permanganate to thirty grammes of water, and frequently renewed, are a most excellent application for burns of the first and second degrees. So strong a solution of permanganate of potassium would do fearful injury even to the healthy skin, and we give this note as a warning.

Bromides in Epilepsy.

While bromides remain the sheet-anchor of physicians in the treatment of epilepsy it cannot be said that success always results, a circumstance probably due to the fact that the course of epilepsy is often neglected. But according to Poulet better results are obtained by combining bromide with calabar bean, as in the following formula:—

Bromide of potassium	℥ij.
Tincture of physostigma (1 to 10)	ʒss.
Water to	℥viij.

Mix.

The dose of this is a tablespoonful daily, gradually increased to two tablespoonfuls. The best plan, however, is to give a teaspoonful three times a day gradually increasing the dose. Cases which have been treated consistently with the remedy for several months to a year have completely recovered, the only change in the treatment being that in cases where the heart was affected digitalis was combined with the bromide.

Gonorrhœa Remedies.

The September number of the *Therapeutic Gazette* contains two suggestions for the treatment of gonorrhœa which are worth reproduction. One comes from Paris, and records the successful treatment of cases in males and females with injections of 1-per-cent. solution of ammonium sulphoichthyolate. Cure followed in from one to three weeks. The second is a German suggestion. Dr. Schwimmer has experimented with zinc sozoiodolate in the acute and chronic forms, using in acute cases ½ to 1½ per cent. solution of the sozoiodolate in distilled water with 2½ per cent. of laudanum; while in the chronic forms he substituted 1 per cent. of salicylate of bismuth for the laudanum. The injections were used three times daily, and the secretion and pain were rapidly reduced, the effects being prompter and more satisfactory than followed any of the other zinc preparations. Another continental injection which is well spoken of is:—

Ergotin	gr. v.
Aquæ	℥ x.

Dissolve, and use three times a day.

Cantharidin in Consumption.

Liebreich's catharidin treatment of tuberculosis is still having fair trial on the continent; but the latest reports from Italy indicate that the injections in two cases were therapeutically worthless.

Phenol for Lockjaw.

In one of the military hospitals of France a patient was recently suffering from tetanus, and all the recognised remedies were tried without effect. Then an eighth of a grain of carbolic acid was given subcutaneously every two hours. The effect was almost immediate, the spasms becoming much less violent and less painful, and the patient's general condition showing marked improvement. The injections were continued for seventeen days, and the patient was finally discharged completely cured, fifty days after his admission to hospital.

Antiquity of Rheumatism.

A find of skeletons at Medum in Egypt, by Mr. Flinders Petrie, recently has led to the interesting discovery that some of the individuals had been afflicted with rheumatism. The skeletons were of the fourth dynasty, so that we may regard it as a fact that long before Abraham's day rheumatism had "come to stay" with man.

Cures for Drunkenness.

There appears to be some excitement in Illinois at present over the gold cure for drunkenness. Chloride of gold is said to be the remedy, and the *Western Druggist* says there is little new about that, for a Dr. Gray, of La Porte, Indiana, practises the following method of cure regularly. When he receives a patient he sets in his room a bottle containing a pint of good whisky, instructing the patient that he can take all he wishes. The doctor immediately commences and gives him four hypodermic injections each day, each containing one-tenth of a grain of the chloride of gold and sodium, and one-fortieth of a grain of nitrate of strychnine, and gives a mixture to be taken by the mouth containing the same with some atropine. The formula for the mixture is

Sodio-auric chloride	12 grains
Ammonium chloride	6 „
Strychnine nitrate	1 „
Atropine	¼ „
Fl. ext. cinchona compound	3 oz.
Fl. ext. coca	1 „
Glycerine	1 „
Water..	1 „

Mix, and take a teaspoonful every two hours when awake.

He sees the patients four times a day and rapidly increases the gold and strychnine until the symptoms show that they are getting all they will bear. The first day the patient drinks pretty heavily of the whisky in his room. The second day he begins to lose his desire for it. By the evening of the third day or the morning of the fourth he is totally sick of it, and will not take any more. The treatment is carried on from three to six weeks. It seems to be a great success. We are frequently asked what Haines's golden specific is. A formula for producing a powder said to resemble this preparation, was contributed to the *Druggists' Circular* some time ago, and is as follows:—

Bark of bayberry root	16 parts
Ginger	8 „
Capsicum	1 „

Reduce to a fine powder, and mix thoroughly.

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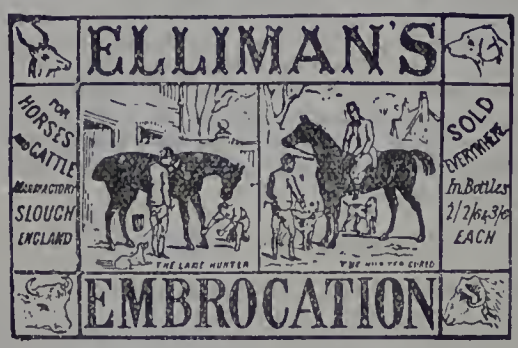

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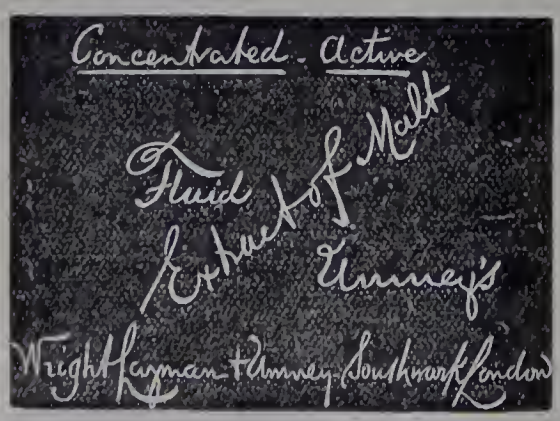

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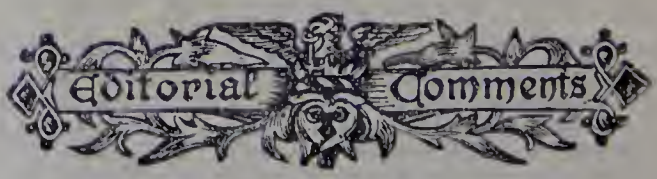

INDIAN OPIUM.

The public interest in the cultivation of the poppy and the manufacture of opium in India has lately been somewhat excited owing to endeavours made through Parliament to get the Indian Government connection with it abolished. Whether opium-smoking in China would thereby be diminished, and whether it is an evil which should be suppressed, are matters which do not come within our province, nor shall we discuss them. But the agitation

against the opium trade during the last parliamentary session has done a good service to science by securing the official publication of an article on opium by Dr. George Watt C.I.E., reporter on economic products with the Government of India. The article was written for the Dictionary of the Economic Products of India, and consists of about seventy-five foolscap pages of print. It deals fully with the habitat of the poppy, the trade in poppy-seed, and the manufacture of oil therefrom. The average yearly export of poppy-seed from India during the past ten years has been about 600,000 cwt., Bombay and Bengal providing two-thirds of it, and Belgium and France receive the same proportion of the exports. The native consumption of the seed and of the oil is large. Extensive as the exports are, imports figure regularly from year to year, part of the imported seed coming from Persia, this seed being the supply from which, after propagation, much of the Malwa opium is obtained.

As to the history of opium we need not follow Dr. Watt closely. The Arabs carried it to India somewhere about the eighth century. At the same time, or probably a century before, the poppy was taken to China, and it appears certain that the poppy has been grown there for the extraction of opium since the fifteenth century. The story of its progress as a luxury amongst the Celestials is too long for these columns. Edict after edict against it has been issued. It was regarded as an evil before England had put foot in India. Yet the habit has grown, and that to such an extent that India, Arabia, Egypt, and Persia have been unable to keep pace with the demand for the drug. Ten years ago the opium produced by the Chinese themselves amounted to about 30,000,000 lbs. per annum, or three times as much as is obtained from all other sources. The present exports of opium from India amount to about 13,300,000 lbs. per annum, a little more than two-thirds going to China.

Opium is also manufactured in India for local consumption, but not so largely as for export. In Bengal it is grown under a licence from the Government. The cultivators have advances made to them; they sell their product to the Government at a price fixed for the year. The opium is finally sold by auction at Calcutta to the highest bidder, and at that point the direct connection of the Government with it ceases. The Malwa opium, grown in Central India and Rajpootana, yields a revenue to the State, chiefly from the duty charged for its transit through British territory to Bombay. In 1889–90 the total net Indian revenue from opium was Rx. 7,908,322.

While there is no doubt that the poppy which grows in Asia Minor, and from which medicinal opium is obtained, is the *Papaver somniferum* var. *glabrum*, we possess no proof, Dr. Watt says, as to whether or not that plant grows in India. One of the most interesting parts of his report deals with the botany of the poppy, and he has occasion to lament that so many authorities and writers (even the authors of Pharmacographia Indica) have perpetuated mistakes and repeated statements without personal investigation. That the Bengal poppy and the Malwa are different has generally been the idea, the former being said to be *P. somniferum* var. *album*, and the latter var. *glabrum*. So Dr. Dymock and his associates say; but Dr. Watt states, in effect, that although the Malwa poppy has a red-like flower, it has many characteristics which exclude the supposition that it is *glabrum*. Considering all the experiments made by Mr. Scott, a man with great practical experience if not precise botanical knowledge, Dr. Watt is able to select at least fourteen forms which are probably recognisable races. There is the white-capsuled poppy, the black-stalked poppy, monaria, teyleah, kutila, sabza-kutila, and so on, each of which can easily be recognised by the experienced eye; each differing in value, especially in yield and quality of opium, and some which grow well in Malwa have proved ill-suited to the climate and soil of the opium tracts in Behar and Benares. The poppy is not a wanderer in India. Although it has been cultivated for centuries, few of the plants are to be found growing wild. Mr. Scott's observations were made upon plants experimentally grown by himself, and compared with plants from the fields. Every care was taken to keep each distinct, and it is, therefore, of much value, as a commentary upon the recent suggestion to employ Indian opium in British medicine, to notice the morphia yield of the inspissated juices from the respective poppies. It is notable that in all cases the alkaloidal value is very much lower than that of Asia Minor opium. These are the figures in percentages :—

Narcotine	Morphine	Total
3·4	2·98	6·38
3·31	2·88	6·19
3·14	3·16	6·57
3·65	3·56	7·21
3·71	3·71	7·42

These results are taken from opium which has not undergone any "cooking," so that destruction of morphia is excluded. But that is of little moment in view of the relative proportions of narcotine and morphine in the opium. Narcotine, it will be seen, is the chief constituent; it is the objectionable principle of opium, and exists in Asia Minor opium to the extent of scarcely more than a fourth of the morphine present. It is obvious, therefore, that apart from the low morphine content of Indian opium, its high percentage of narcotine quite unsuits it for medicinal use. The question arises, Can the varieties of poppy at present grown in India be made, by different methods of culture, to yield an opium of equal value to that from Turkey? The question cannot be satisfactorily answered until the true *Papaver somniferum* var. *glabrum* has been cultivated in India; but it seems unlikely that this plant could degenerate in that country to the condition of the plants which have so long been propagated there. It is not a matter of culture at all, but one of botanical variety; and Dr. Watt is right in asking that greater attention should be paid to this branch of the subject. His whole report, several sections of which we have not ventured to touch, is one which should throw considerable light upon a somewhat obscure subject.

NEW YORK PHARMACISTS.

We have passed a pleasant hour in reading the "Proceedings of the Nineteenth Annual Meeting of the New York State Pharmaceutical Association, held at Hotel Champlain, N.Y., June 23, 24, and 25, 1891," a copy of which has been kindly sent to us during the past week. Including the constitution, names of members, by-laws, and index, the report covers 174 pages. The discussions are extremely well reported, in the life-like style which enables absentees to realise exactly what took place. We make out that the Association has a membership of close on 800 pharmacists There are, we are told, about 4,000 druggists in New York State, and as the subscription to the Association appears to be only one dollar, the proportion of these who have thus associated themselves is fair, but not excessive. The president for the session was W. G. Gregory, of Buffalo, and the secretary of the Association for the past ten years has been Clay W. Holmes, of Elmira.

Besides by-laws, the New York Association boasts a code of ethics which assures all whom it may concern that "we" (the members) accept the United States Pharmacopœia

as their standard and guide, though they will graciously dispenso foreign prescriptions in accordance with foreign Pharmacopœias; they distinctly repudiate the practice of allowing a percentage to physicians in any form, and, "as far as possible," will refrain from compromising the professional reputation of any physician. The saving clause is good. They consider that their professional training does not exactly qualify them to diagnose and treat disease, and they will therefore, "in all practical cases," decline to give medical advice. Again we note the useful qualifying phrase. Lastly, they declare that they consider it to be their duty individually and collectively to encourage the advancement of knowledge in their profession, and to stimulate their assistants to become proficient in their business. The code of ethics, it will be seen, has a very Jack-Hornerish style about it, and seems to have been expanded from some chemist's circular, announcing that he has opened a new shop, and hopes by strict attention to business—and so on.

The annual meeting, we are pleased to observe, was opened by a prayer from the Rev. Joseph Gamble, of Plattsburg. Then followed a stirring oration of welcome from a local celebrity, who claimed that the inhabitants of the Champlain Valley were not like those of old, who said, "Thou shalt not suffer a witch to live"—the literal interpretation of this passage being, he explained, "Thou shalt not suffer a dispenser or mixer of poisonous drugs to live." The ground they stood upon was of historical and natural interest. One of the great battles of the War of Independence was fought there, and here was the gate of Adirondacks. The speech having been suitably acknowledged, an address from the president was the next feature. A curiosity of the method of proceeding was that the vice-president took the chair while the president delivered his address. It touched on several topics, one of which was the Jubilee of the British Pharmaceutical Society, to which the association had been invited, and at which, the president informed his audience, "several American pharmacists were present." This was a little apocryphal. The address was warmed up by a lengthy reference to the evidently burning question of "cut prices." Secretary and treasurer read their reports, officers for the ensuing year were elected, committees appointed, then a "committee on credentials" brought up its report in solemn order, and it was moved and seconded that the delegates thus recognised, several of whom had been talking all the morning, "he awarded the privileges of the floor." Among reports submitted in a formal manner was one from Dr. Eccles, who had been delegated to attend the American Medical Association. He presented a very interesting summary of the transactions there so far as pharmacy was concerned with them. Some curious papers had been contributed. Dr. Stewart, of Wilmington, read a paper on "The Working Bulletin System," in which he described a scheme he had planned for investigating the materia medica of the world by bulletins sent out under the supervision of the United States Government to gain voluntary information concerning all drugs used in treating the sick, as well as their value. Professor Bedford told medical men how much pharmacy they should know and how they should learn it; Mr. Reynolds, of Plainfield, drafted a Congress law to prevent patent medicines from crossing the border of the State in which they originated; and Dr. Love offered a paper with the fantastic title, "Guests of this Hotel are not Permitted to use Iodoform." This was a sign he had seen exhibited in the office of the principal hotel at Hot Springs, Arkansas.

The association has a committee on trade interests. A great many chemists in this country would think the millennium was at hand if we got as far as even appointing such a committee. It may be of interest to see how this New York committee has been justifying its existence during the past year. It met in Syracuse on July 2, 1890, and agreed on a circular and a series of questions to send out to every druggist in the State. These, as we have already mentioned, number nearly 4,000. Seventy-seven of them were gracious enough to respond. We are left to suppose that the other 3,923 druggists do not attach much importance to the efforts of the association in benefiting the trade by united action. The committee epitomise the answers received to the inquiry as to the direction in which they might make their labours useful to the trade generally, and they extract from them sixteen suggestions—not one of which can be credited with originality and value at the same time. Eighteen recommended the organisation of district associations, ten asked for protective laws, and the rest say, in various forms, "do something" to prevent grocers and stores cutting against us.

It is sometimes disputed whether any honest labour can be wasted in this world. This committee's efforts can surely be cited by the advocates of the theory that it can. The reading of the report led to a lively discussion on "plans" to check the cutting of proprietaries. George J. Seabury, who, to use his own expression, is "always loaded for bear on this question," led the debate. His scheme is now the "tripartite" one. The three parties to it are to be the manufacturers, the jobbers, and the retailers. The manufacturers who consent to go into this scheme are to sell their goods only to approved jobbers or retailers; jobbers are to consent to refuse supplies to anyone who gets on the cut-off list; and retailers are to guarantee not to cut, and not to substitute in the case of articles produced by makers who honourably abide by their part of the contract. It is argued that in this scheme the interests of all parties are fairly balanced, and that it has therefore in it the elements of permanency.

Cutting was the leading topic discussed at the meeting, and we note some very libellous and unjust charges and reflections made on the mercantile honour of competitors who offend in this respect. Other more serious subjects were also brought forward, and results of unquestionably useful work were submitted by two committees—one dealing with new remedies and the other with adulterations. Dr. Eccles seems to have been the chief worker on both of these, Dr. W. G. Tucker assisting on the second. This committee on adulterations reported an immense amount of work and truly sensational results. They had collected samples of medicines all over the State of New York, and had tested them. Sixty-eight samples of spirit of nitre varied in ethyl nitrite content from 0·06 to 8·06, and 47 of the samples were declared to merit "unqualified condemnation." Seventy-six samples of dilute acetic acid had been experimented on, and the strength, which should have been 6·12, was found to vary from 0·80 to 29·80; 11 samples were too strong, and 34 much too weak. Out of 46 samples of Hoffman's anodyne only 12 could be passed; 34 contained no ethereal oil. Stronger ether was satisfactory in 17, and inferior in 12 instances. Dilute hydrobromic acid, which should contain 10 per cent. of acid, varied from 0·60 to 14·40; dilute hydrochloric acid varied from 3 to 31 per cent. Only 1 out of 13 samples of magnesia was good; "all the rest contained carbonate enough to effervesce on the addition of an acid, and some contained other impurities." Of 9 samples of bromide of potassium 6 were good and 3 were poor; of 15 samples of iodide of potassium only 3 were good; of 20 samples of saffron 14 were safflower; and of 30 seidlitz powders half were short weight. Out of 37 purchases of precipitated sulphur, lac sulphuris loaded with plaster of Paris was obtained in 22 instances

washed sulphur in 4, and sublimed sulphur in 1 case. The investigators also tested several pills, mostly supplied by manufacturing houses. They found some discrepancies, due apparently to the effects of oxidation, in the cases of Blaud's pills and those of aloes and myrrh, and some economical substitutions in the case of the compound cathartic pills of the U.S. Pharmacopœia. But in sulphate of quinine and in opium pills honesty decidedly preponderated. They examined also several specimens of malt extract with cod-liver oil, and found that such deficiency as existed occurred in the oil, which is the cheaper of the two ingredients. The wholesale men certainly come best out of the examination, but it is the others who clamour for State protection.

WORKING A SPECIALITY.

A French Scheme.

A correspondent engaged in pharmacy in France sends us some particulars of an ingenious enterprise by which a French pharmacien aims to establish a business in a proprietary medicine without much risk. He resides in a country town in the south, and has invented an elixir the virtues of which we need not dwell upon. He then sends circulars to selected pharmaciens in other towns making the following proposal. To his *cher et honoré confrère* in towns with a population not exceeding 20,000 inhabitants he offers the sole depôt. In larger places he reserves the right of having more than one depôt, but in such cases the agencies shall be in different quarters. The retail price of his elixir is to be 2*s*. and 5*s*., and his prices to "depositaires" are to be 10*d*. and 2*s*. "Depositaires" are to take two dozen small and one dozen large bottles, and are to pay for these in four months. They are not supplied on sale or return, but the agent who thus risks 54 francs is to become thereby a shareholder in the property. His dividends are to come from sales to others than "depositaires." The manufacturer engages to pay to a dividend fund 1*s*. 3*d*. on every large bottle and 4*d*. on every small bottle which he supplies to the wholesale dealers. And he has an arrangement with stamps, which we do not quite understand, whereby to check these sales. He is to supply advertising matter and sample bottles, but the agent is expected to use his personal influence with doctors and others to push the elixir. The agent who does not dispose of his 54 francs' worth of elixir within six months is to lose his rights as a shareholder, and has no claim on any future profits. And the association and all share of profits are to be determined entirely in fifteen years from the date of its formation in 1890, and after that period the manufacturer resumes sole proprietorship.

Our correspondent tells us that the results of the first six months of this experiment have been that 103 pharmaciens have become depositaire-shareholders, that 1,100 large bottles and 3,600 small ones have been sold, and that the sale is steadily extending. We are not in a position to state what amount has been paid in dividends, but evidently this is a sum which should increase as the speciality becomes more widely known.

COMMENTARY.

One is More than Enough.—Medical men, says the *Zoophilist*, appear to have the strangest notions concerning their duty to their patients. Dr. J. W. Stickler, writing in the *New York Medical Record* of August 1, is evidently no "stickler" for honour and justice in the treatment of patients who can be subjected to experiment. He gives fourteen reasons why Koch's tuberculine should never be used. In the old story, the commander who apologised to Queen Elizabeth for not firing a salute in her honour, had twelve good reasons to offer as his excuse. The first was that he had no guns; Her Majesty said she would dispense with the other eleven. Dr. Stickler says one of the fourteen reasons why doctors should abandon the use of Koch's "remedy" is that "*it is almost certain to hurry the patient into eternity.*" As a lay journal, we may dispense—like Elizabeth—with the other thirteen good reasons.

The Mysterious Committee.—Correspondents continue to send us the curious letter which Mr. G. W. Sargent, of Kensington, is lavishing on chemists all over the country, professedly "By order of Committee." Like our correspondents, we cannot make out the object Mr. Sargent has in view, and we have tried, unsuccessfully, to ascertain who are the committee which has put him to his extraordinary task. We are sorry to see postage-stamps wasted as his seem to be, and, therefore, hope we shall serve him and his committee if we publish to the trade generally the announcement he is making to many of them individually. His letter runs thus:—

Preliminary Notice.] Kensington, W.
Oct. 6, 1891.

Dear Sir,—I am instructed to inquire if you carry on retail trade in conjunction with wholesale trading, especially in any indirect manner, also as a capitalist—proved to be a violation of the Pharmacy Act, 1868.

By order of Committee,
G. W. Sargent.

Large sums of money continue to be subscribed to the Benevolent Fund for the purpose of carrying on illicit trade.

The Pharmaceutical Society Returns Thanks.—*The Chemist and Druggist of Australasia* reports that the Pharmaceutical Societies of the southern hemisphere who sent congratulatory addresses to the British Pharmaceutical Society on the occasion of its Jubilee have just received their reward in the form of a printed circular, which the President has not even taken the trouble to sign. In ordinary type, and absolutely identical terms, with date and address filled in by an anonymous official, "a feeling of the warmest sympathy" is expressed to fifty societies at once! It is as bad, irreverently remarks our Melbourne colleague, as sending your "best girl" a proposal of marriage lithographed, signature and all, with only her name and the date filled in by your own hand. The circular runs as follows:—

[Coat of arms.]
"Pharmaceutical Society of Great Britain,
"17 Bloomsbury Square, London, W.C.
"June 8, 1891.

"Dear Sir,—At the desire of the Council of this Society, I beg to convey to you its hearty thanks for the congratulatory address which you were so good as to forward on the occasion of the celebration of our Jubilee.

"The terms in which you have spoken of our labours have evoked among our members a feeling of the warmest sympathy, and will, I trust, tend to further develop among our great brotherhood the natural bonds of union and friendship.

"Permit me, on behalf of the Council of this Society, to wish increasing prosperity to the important body you represent.

"I am, dear Sir,
"Yours faithfully,
"Michael Cartright, President."

[Name of President of "important body."]

Further Botanical Contributions from Lord Randolph.—The botanical vagaries of the *Daily Graphic's* Mashonaland correspondent in the island of Madeira caused a good deal of amusement at the outset of the trip. On that occasion the noble lord turned his attention mainly to edible products of the vegetable kingdom, but since then the storm and stress of life among lions, snakes, and other savage creatures have turned his thoughts to the sterner things. Hans

Lee, his Anglo-Dutch hunter and faithful factotum, who is a "person of perfect credibility," has told Lord Randolph "one or two curious things," which the latter promptly transmitted to London. They are these: "In the Zoutpansberg, round where Lee himself resides, there grows a tree called the 'snake tree,' the leaves of which, when boiled, make a decoction which is an infallible specific against snake-bite. Lee has used it himself on animals with complete success, and he is perfectly confident that with this remedy he could cure any human being who had been bitten by a poisonous snake. Persons whom he (Lee) could trust had told him that the drink made from these leaves cured animals from the mortal illness caused by the bite of the Tsetze fly. Further, there was a small tree in Matabeleland, where Lee has lived for many years, which bears a fruit like to and sweet as the pine-apple, the roots of which are a perfect antidote to the effects of strychnine-poisoning, and are always used by the natives to cure any of their dogs which have picked up poisoned food which has been laid about to kill jackals and hyenas."

More about Tuberculin.—It is said to be bad manners to speak about rope in a family where there has been a hanging, and we should have thought a polite visitor would be reluctant to introduce the subject of tuberculin in the presence of Dr. Koch. But the doctor himself seems to have no such delicacy. In this week's German *Medical Weekly* he has a long article, in which he describes the origin, preparation, and application of tuberculin in a tone which seems to coolly ignore the circumstance that the boom has exploded long ago. He has succeeded in getting what he is pleased to regard as almost absolutely pure tuberculin, the effect of which in the production of inflammatory symptoms does not perceptibly differ from that of the crude article. It would seem probable, from other people's experiments, that if Dr. Koch were to inoculate his delicate patients with any other form of dirt, duly exciting them at the same time, he would obtain similar "diagnostic and therapeutic results."

Gazette.

PARTNERSHIPS DISSOLVED.

Emmerson, R., & Sons, Newcastle-upon-Tyne, brewers, and manufacturers of mineral waters; as far as regards J. Emmerson.

Pink, Edward, & Sons, Bermondsey, and Eastcheap, City, and under the style of the London Confectionery Company, George Street, Pietou Street, and Queen Street, Camberwell, manufacturers of confectionery and pickles, and spice and pepper merchants and general merchants; also under the style of the proprietors of Scott's Wharf, Dockhead, and at Horselydown Wharf, wharfingers and warehousemen.

Wilkinson & Vernon, Penge, pharmaceutical chemists.

THE BANKRUPTCY ACTS, 1883 AND 1890.

Receiving Orders.

Darke, S. T., St. Paul's Street, New North Road, glass bottle manufacturer.

Isaacs, Edwin, and Wulfson, Albert, lately trading in co-partnership as the English Optic Company, Hatton Garden, wholesale opticians.

Adjudications.

Darke, S. T., St. Paul's Street, New North Road, glass bottle manufacturer.

Edwards, John (trading as John Edwards & Co.), Conway and Glanrafon, Carnarvonshire, chemist, druggist, grocer, and wine and spirit merchant.

TRADE-MARKS APPLIED FOR.

The *Trade Marks Journal* publishes the following notice:—"Any person who has good grounds of objection to the registration of any of the following marks may, within one month of the date of this journal give notice in duplicate, at the Patent Office, in the form 'J,' in the second schedule to the Trade Marks Rules, 1890, of opposition to such registration." All communications to be addressed to H. Reader Lack, Esq., Comptroller General, at the Patent Office, 25 Southampton Buildings, Chancery Lane, London, W.C.

(From the "Trade Marks Journal," October 7, 1891.)

"Carboline," with wording on illustrated label; for deodorisers, vermin-destroyers, sheep-dip, &c. By H. Ellison, Flatt Lane, Cleckheaton. 157,712.

"Cyona," and sketch of soldier of Indian Horse; for veterinary medicine for application to wounds, and for medicated soap. By H. C. Thomson, 3 Park Square West, London, N.W. 158,204, 158,275.

"Kreamyne"; for medicated preparation for use after shaving. By W. H. Edwards, York Road, Northampton. 157,585.

"Liebig's Extract of Meat and Malt Wine," and other wording on illustrated label; for a wine as described in title. By W. Whiteley, trading as Hassall & Co., 41 Corporation Street, Manchester. 154,736.

"Stoddart's Tooth-powder," sketch of shell and wording on circular label; for tooth-powder and paste. By C. Stoddart, 27 Lower Seymour Street, Portman Square, W. 157,843.

"Locrine"; for a tooth-powder. By H. C. Thomson, 3 Park Square West, London, N.W. 158,276.

(From the "Trade Marks Journal," October 14, 1891.)

Sketch of ship in full sail; for glycerine for use in manufactures, &c. By Price's Patent Candle Company (Limited), 31 Threadneedle Street, London. 158,277.

Sketch of arrow piercing target; for medicines for human use. By F. B. Wride, junr., trading as Wride Bros., 1 Strand, East Street, Southampton. 157,432.

"Huitchê," and name of firm; for an anti-asthmatic medicine. By R. L. McCulloch, 19 & 20 Tyndale Place, Islington, N. 158,391.

Sketch of Christmas pudding, with holly spray, and name of firm; for mineral and aërated waters. By Thacker & Christmas, 22 & 24 High Street, Warwick. 158,135.

"Sozochrome," and signature; for a preparation for preserving the colour of the hair. By F. Miller, 3 Christchurch Passage, Birmingham. 158,388.

From the "Trade Marks Journal," October 21, 1891.

"G. B. Clarke's Composition for Dipping Sheep," &c; for a sheep-wash. By G. B. Clarke, 3 High Street, Woburn. 158,144.

"Californian Borax," &c., and sketch of crystals on label; for an antiseptic. By J. Ascough, Handsworth, Staffordshire. 155,432.

"Dorothy Dentifrice," on square label: for dentifrices. By R. C. Spurin, 28 Tavistock Road, Plymouth. 158,369.

DEATH.

Dodd.—Josiah F. Dodd, one of the first men who engaged in the manufacture of prussiate of potash in the United States, died at East Orange, N.J., on October 3, at the age of seventy-three years. Mr. Dodd was born at East Orange, then known as "Dodd Town." His ancestors were among the earliest settlers of that section, having gone there from England in 1646. The deceased gentleman was a member of the firm of Dodd & Carhuff, engaged in the manufacture of prussiate of potash some thirty years ago, and remained interested in the industry until about five years since, when he retired from active business. Mr. Dodd devoted a considerable proportion of his ample income to charities.

THE DRUG BUSINESS IN AMERICA.

By T. G. Hunt, Streator, Ill., U.S.A.

(Formerly with J. Bell & Co., London).

THINKING a short account of how the drug business is conducted on this side of the Atlantic would be of some interest to the readers of The Chemist and Druggist, I pen a few incoherent remarks on that subject.

Pharmacy Laws

exist in all States of the Union, with the exception of Maryland, Mississippi, Indiana, Vermont, Tennessee, and some of the Western Territories. The standard of qualification varies somewhat in the different States, and one State does not accept the certificate of another. The examinations are conducted by the State Board of Pharmacy, and diplomas from any school of pharmacy are accepted in lieu thereof.

The Pharmacy, or Drug-store

(every place of business is a store here), in this country has the same general appearance as in England, but generally occupies a larger room, and, in the cities, has a much more elegant and elaborate appearance, many having the shelf-bottles enclosed in glass cases with mirror backs, and profusely illuminated with arc and incandescent electric lights, giving a dazzling and brilliant appearance. A great acquisition to the drug business in this country is the soda water fountain, an apparatus for dispensing ice-cold drinks flavoured to suit the tastes of the customer. These apparatus are usually very rich and elegant—smaller ones for counter, and larger ones built against the wall, and costing as high as $1,500 (300*l*). The sale of these drinks forms a large source of revenue in most pharmacies, especially in cities, where, on account of the extremely hot weather, the public develops a remarkable thirst for cold drinks.

Range of the Drug Business.

The drug business in small towns is of a very mixed character, consisting of, besides drugs and medicines, paints and oil, stationery, cutlery, lamps and glassware, toys, books, guns and sporting goods, and, in some cases, jewellery and plated ware. Liquors of all kinds are sold by the druggist, and in the prohibition States of Iowa and Kansas, where the sale of intoxicating beverages is prohibited by law excepting by physicians' prescription, the dispensing of said prescriptions forms the largest item of most of the drug businesses, and drinking is almost as prevalent as in other States; but the price of a drink is rather "high," for, besides having to pay the physician for his prescription—which generally reads spt. frumenti ℥viij., sig. as directed—the druggist charges an exorbitant price for the cheapest kind of whisky, but the Western cowboy and pioneer must have it, and the more fusel oil the better they like it. The unfortunate druggist, however, who is unwary enough to be found guilty of violating the law is treated to a large fine and imprisonment, and his career as a dispenser of stimulating "tonics" is at an end.

In this country the physician is closely associated with the druggist, the two mutually assisting each other, and the dispensing department is altogether dependent on the patronage of the one or more physicians who generally have their offices over, or as near as possible to, the drug store. The druggist who has not a physician attachment has very little work in his dispensing department. The druggists furnish prescription-blanks in book-form free, with business-card on top, to the physicians, who use them exclusively, and patients are expected to take their prescriptions to the druggist whose card appears on the top. The prescriptions are not considered the property of the patient, but are kept by the druggist, who numbers them to correspond with the number on the label, and files them away for future use.

Solid medicines are invariably prescribed in gelatine capsules, and this is a very popular way of administering. Pills are seldom prescribed, excepting the ready-made gelatine or sugar-coated pills of the manufacturing chemists, notably McKesson & Robbins, Parke, Davis & Co., Upjohn, &c., who manufacture very large and varied lines. The simple elixir is a nice and palatable vehicle, very largely prescribed in all combinations. Proprietary proparations (not patent medicines) enjoy a large share of the physicians' patronage, and are all more or less very elegant preparations, a large amount of time and skill being expended in their "formulation" The composition is generally declared on the labels, but their use materially lessens the standard of experience and education necessary for the qualification of the dispenser, and deprives the druggist of a large share of the profits of the dispensing department. Of proprietary preparations, amongst the most extensively used are Parke, Davis & Co.'s cascara cordial, pepsin cordial, &c.; New York Pharmacal Association's lactopeptine elixirs, with combinations; Wyeth & Brothers' beef, iron and wine, syrup white pine compound, &c.; McKesson & Robbins' pills, &c.; maltine, with combinations. The English manufactures specially in favour here are Hubbuck's oxide of zinc, Howards & Sons' calomel, May & Baker's precipitated chalk, George Allen & Co.'s solid extracts, Leslie's plasters, and Maw's rubber teats.

It seems rather remarkable that, in a climate so damp and changeable at times, and with so much bronchial and lung troubles, hay-fever, &c, there are no respirators in the market. It seems to me that a respirator made to open and admit the saturation of suitable material with the proper inhalant would certainly be a good thing in the catarrhal troubles so prevalent here.

Prescribing and Dispensing.

Physicians rarely prescribe over 4-oz. prescriptions, and generally in teaspoonful doses, except where larger doses are necessary. I have never known a mixture being directed to be taken by parts. They do not dispense their own medicines except in small towns, where the physician generally combines the practice of medicine with the drug business. The prices charged for prescriptions vary considerably, according to location, &c. The usual price here for 2-oz. mixtures is 35 cents, 3-oz. 50 cents, and 4-oz. 60 cents (2*s*. 6*d*.). We have three physicians who patronise our store exclusively, who write from twenty-five to fifty prescriptions at an average price of 45 cents (1*s*. 10*d*.).

Patent Medicines.

Of patent medicines some druggists carry a very extensive stock. Their name is legion, one wholesale price-list quoting over 10,000 different kinds, some of them claiming almost supernatural powers. One is sold by the gallon bottle and actually claims to cure everything, and to read the label thereon would make one believe that the scythe of old Father Time was completely shattered and of no further use. All that seems to be necessary here is to advertise—an art which, in America, has attained a point of excellence which is remarkable. Beecham's Pills, Pears' Soap, and Atkinson's White Rose have very large sales here. It seems to me that more English patents and proprietaries could be successfully introduced in this country, where a great many English people live. In case the tariff is too high to admit of being imported, branch factories could be established, as has actually been done by Mr. Beecham. And I may say that here in Streator is the best place in the Great West. We have abundance of the best coal, unrivalled railroad facilities, and a largely-populated country. Novelties for babies, &c., manufactured by Bourne, Johnson, & Latimer, and other such advertised in The Chemist and Druggist, could be patented and manufactured over here with profit.

The Chicago Exhibition.

I expect I have overreached the limit of your available space, but wish, before concluding, to invite all who can, both as exhibitors and visitors, to come over in 1893 to the Great Chicago Exposition. It will be the greatest sight ever known in the line of exhibitions. I will be pleased to render information or assistance in any way. Parties wishing for information, please address me 305 Main Street, Streator, Ill.

I was pleased to see the Pharmaceutical Society was represented in the Royal Commission to the Exposition in that person of Mr. Wm. Martindale, and hope the pharmacists will be well represented in 1893 both in number and quality of exhibits. I will be pleased to assist or represent any who contemplate exhibiting.

Notice to Retail Buyers:—It should be remembered that the quotations in this section are invariably the lowest net cash prices actually paid for large quantities in bulk. In many cases allowances have to be added before ordinary prices can be ascertained. Frequently goods must be picked and sorted to suit the demands of the retail trade, causing much labour and the accumulation of rejections, not all of which are suitable, even for manufacturing purposes.

It should also be recollected that for many articles the range of quality is very wide.

The first pages of this report deal with the markets up to Wednesday evening. Our reports of Thursday's sales and the latest information are appended under a distinctive heading.

Extension of Opium-cultivation in European Turkey.—The cultivation of opium in European Turkey is extending year by year. In the vilayet of Salonica the 1890 crop, "having regard to the development which progresses every year in the cultivation of opium in this province," as an official report puts it, ought to have reached 1,600 145-lb. chests; that it did not do so was ascribable solely to the unfavourable weather. Experiments in the cultivation of opium have also been made during the last two or three seasons in the districts of Serres and Drama. These have been very successful, and it is exceedingly likely that the cultivation of opium will be taken up seriously in those districts, particularly if, as seems probable, tobacco-growing will be subjected to considerable restrictions by the Turkish Government.

A Permanganate of Potassium Combination.—The formerly existing syndicate of German permanganate of potassium manufacturers come to an end about two years ago, since that time the makers have been underselling one another with great vigour. At last they seem to have become tired of that policy, for they now announce that, from 15th inst., they have placed the exclusive sale of their potassium permanganate in the hands of the Chemische Fabrik auf Actien (vorm. S. Schering) in Berlin. The two makers who have done so are Dr. M. Goldschmidt, of Cöpenick, and Gebr. Borchers, of Goslar. Messrs. A. M. Zimmermann will sell for the three firms (Scherings are also manufacturers of the article) in this country. We believe that at the present time there is only one other manufacturer in Germany, and his works are temporarily closed owing to removal.

Improvements in Glycerine Manufacture.—We have referred on several occasions lately to improved processes by which, it is alleged, glycerine can be recovered from soapmakers' lye in a much more expeditious and less wasteful manner than has been possible so far. One such process has just been patented by one Van Ruymbeke, a Belgian living in Chicago. The object of the patent is to recover from the salty lye, in which a considerable proportion of the glycerine contained in the oils and fats used in soap-making is now wasted, a glycerine sufficiently pure to be used, without further refining, for commercial purposes. The invention consists in first treating the lye with an acid to neutralise partially the free alkali of the solution, and then adding sulphate of iron or sulphate of aluminum to complete the said neutralisation, then filtering or otherwise separating out the precipitate, evaporating to crystallise out the salt, and finally distilling the resulting liquid to obtain the glycerine. The process, it is said, is about to be introduced experimentally into several American soap-factories.

Acids.—*Citric* remains unaltered at 1*s.* 4¼*d.* to 1*s.* 4½*d.* per lb. on the spot, and up to 1*s.* 5*d.* per lb. for forward delivery. Juice is offering at 19*l.* f.o.b. from Messina, about 20*s.* cheaper than last week. *Tartaric* acid may be had at 1*s.* 1*d.* to 1*s.* 1¼*d.* per lb. on the spot, according to brand. The market remains almost lifeless. *Oxalic* acid cannot be quoted higher than 3¼*d.* per lb.

Alcohol.—The potato crop in Eastern Europe having turned out unsatisfactory, prospects generally are in favour, if not of a further advance, at least of the maintenance of the present prices. The current quotation for best German refined potato-spirit runs from 1*s.* 2*d.* to 1*s.* 2¼*d.* per proof gallon, usual terms, distant delivery being rather dearer than prompt.

Aloes.—There has been another arrival of 35 cases Cape aloes per *Dunbar Castle* from Mossel Bay this week. This will tend to frustrate any rise in prices that might otherwise have occurred. There has just been a second arrival, of 150 cases per *Mexican.*

Anise.—Russian anise of fair quality is worth 19*s.* to 20*s.* per cwt. China *Star-anise* is held for 95*s.* to 96*s.* per cwt. on the spot. China mail reports, dated September 17, speak of a somewhat easier market. No actual business had been done, but dealers were offering more freely for delivery at from $28 to $28¾ per picul.

Annatto.—Small lots of good Brazilian roll annatto have changed hands at 11*d.* per lb. lately.

Antimony remains firm, with an advancing tendency. On 'Change to-day 27*s.* to 28*s.* was quoted for crude Japan, but we should think that for quantities 24*s.* to 25*s.* would be nearer the mark. Regulus antimony, 46*s.* per cwt. The shipments of antimony from Salonica in 1890 amounted to 564 tons, an increase of 211 tons upon the previous year. This growth is owing to the opening of a new mine. The exports of antimony to France increased greatly, regulus antimony being used, it is said, in the preparation of a new war material manufactured in that country.

Balsam (Copaiba).—Cables from New York quote lower prices for good *Maranham.* Until now the London quotation has been 2*s.* 1*d.* to 2*s.* 2*d.* per lb. for this variety, now it offers at 1*s.* 10*d.* per lb. c.i.f. terms.

Borax.—Crystals are offering at 28*s.* 6*d.* per cwt., and powder at 29*s.* to 30*s.* per cwt.

Calabar Beans are still selling at 3⅛*d.* to 3¼*d.* per lb. in Liverpool.

Camphor (Crude).—There has been some further increase in the firmness of this article since last week. Cables from Japan quote camphor about 2*s.* 6*d.* dearer, the last price being 125*s.* per cwt. c.i.f. terms, October-November shipment. On the spot Japan is held for 127*s.* 6*d.* to 130*s.*, China for 120*s.* per cwt., but there has not been any business.

Camphor (Refined).—There is no alteration in English refined camphor, but German is offering at considerably lower rates, in spite of the firmer position of raw camphor. One German maker, indeed, still quotes 1*s.* 5½*d.*, but he is out of the run, 1*s.* 4½*d.* for prompt delivery being his competitors' price. French bells are offering at 1*s.* 4¾*d.* per lb.

Cardamoms.—The following shipments represent the exports of cardamoms from Ceylon during the periods between January 1 and September 28:—1891. 210,223 lbs.; 1890, 237,496 lbs.; 1889, 208,614 lbs.; 1888, 203,724 lbs.

Cascara Sagrada.—The *Tower Hill* from New York brought 163 bales cascara this week. Cables from America quote higher prices—viz., 32*s.* 6*d.* per cwt, c.i.f. terms.

Cream of Tartar is firmer. Best white crystals are somewhat scarce on the spot at 94*s.* per cwt., which shows a recovery of about 1*s.* from the bottom price.

Cinchona.—The fortnightly bark auctions on Tuesday were rather larger than usual, but the average standard of the Ceylon and Indian barks offered was exceedingly low. In fact, with the exception of two or three small parcels of yellow and grey barks, the figure of 4*d.* per lb. was onl

twice reached. The catalogues comprised the following quantities of the various descriptions of bark:—

	Packages		Packages	
Ceylon	602	of which	602	were sold
East Indian	225	"	204	"
Java	84	"	84	"
South American	532	"	307	"
West Coast African	295	"	295	"
	1,738		1,492	

The unusually large quantity of African bark offered was nearly all of very recent import. It was fairly well competed for, and brought not altogether unsatisfactory prices. Much of it was badly harvested. The South American barks consisted exclusively of Calisayas, partly of the flat variety usually met with at the drug auctions, and partly of cultivated Bolivian bark. The following are the approximate quantities purchased by the principal buyers:—

	Lbs.
Agents for the Mannheim and Amsterdam works	73,556
" Brunswick factory	47,129
" Frankfort o/M. and Stuttgart works ..	41,555
Messrs. Howards & Sons	29,558
Agents for the American and Italian works	17,211
" Auerbach factory	13,805
Sundry druggists	43,572
Total quantity of bark sold	266,386
Bought in or withdrawn	25,130
Total quantity offered	291,516

It should be well understood that the mere weight of bark purchased affords no guide whatever to the quinine yield represented by it; firms who buy a small quantity of bark by weight frequently take the richest lots, and *vice versâ*. The following prices are shown by an analysis of the catalogues to have been paid for sound bark:—

The small total weight of the bark offered is explained by the lightness of the bulk of the packages of South American and African cinchona. Competition at the sales was fairly good, and nearly the whole of the barks offered sold without quotable alteration in price, at an average unit of $1\frac{1}{8}d.$ per lb. for the best lots.

The following are the prices paid for sound bark:—

CEYLON CINCHONA.—*Original.*—Red varieties: dull and woody branch and stem chips, 1*d.* to $2\frac{1}{2}d.$; ordinary shavings, $1\frac{1}{2}d.$ to 2*d.*; fair druggists' quill, $3\frac{1}{4}d.$ to 4*d.*; ordinary dull and dusty to fair root, $1\frac{1}{4}d.$ to 3*d.* per lb. Yellow common woody and thin chips, 1*d.* to $1\frac{1}{4}d.$; fair quilly branch chips, $5\frac{1}{4}d.$ per lb. Grey very low twigs to fair quilly chips, $\frac{1}{2}d.$ to $3\frac{1}{2}d.$; fair spoke shavings, $2\frac{1}{4}d.$; root, 4*d.* per lb. Hybrid chips, $1\frac{1}{2}d.$ to $2\frac{3}{4}d.$ per lb. *Renewed.*—Red varieties: Ordinary woody to fair quilly stem and branch chips, 2*d.* to 3*d.*; mixed chips and shavings, $1\frac{1}{2}d.$ to $2\frac{1}{2}d.$; good bright shavings, 4*d.* per lb. Grey varieties: Good quilly chips, $5\frac{3}{4}d.$ to $6\frac{1}{4}d.$; fair spoke shavings, $5\frac{1}{4}d.$; good root, $5\frac{1}{2}d.$ per lb. Hybrid chips, 4*d.*; root, $4\frac{1}{2}d.$ per lb.

EAST INDIAN CINCHONA.—*Original*: Dull red chips and shavings, 2*d.* per lb. Ordinary to good bright yellow chips, $3\frac{3}{4}d.$ to 7*d.*; dull stem chips, $2\frac{1}{4}d.$ to $2\frac{1}{2}d.$ per lb. Grey ordinary chips and shavings mixed, 2*d.*; fair quilly chips, 5*d.* per lb. Hybrid root, $2\frac{1}{4}d.$; stem chips, $2\frac{1}{2}d.$ per lb. *Renewed*: Fair red shavings, $3\frac{1}{4}d.$ to $3\frac{1}{2}d.$; grey chips, $4\frac{1}{2}d.$ per lb.

JAVA CINCHONA.—Original yellow (Calisaya) chips at 5*d.*; common and branchy to fine (Ledger) ditto at 4*d.* to 9*d.* per lb.

SOUTH AMERICAN CINCHONA.—Cultivated Bolivian Calisaya, medium to bold, partly broken bright quill, at $4\frac{1}{4}d.$ to $5\frac{3}{4}d.$; good ditto at $6\frac{1}{4}d.$ Fair flat bright orange at 8*d.* per lb.

WEST COAST AFRICAN CINCHONA.—Yellow (Calisaya) fair bright silvery quill, $4\frac{1}{2}d.$ to 5*d.*; broken, split and irregular, partly badly damaged ditto, $2\frac{1}{4}d$ to 3*d*; quilly chips, 2*d.* per lb. Red bold quilly but damaged chips, 3*d.* to $3\frac{1}{4}d.$; fair, but broken to good, silvery quill, $2\frac{3}{4}d.$ to 4*d.* per lb.

The next Amsterdam sales will be held on November 12. The barks from private plantations to be offered on that occasion have not yet been got ready, but from the Government plantations there will be 29 tons of bark, including about 8 tons Succirubra, $1\frac{1}{2}$ tons Officinalis, and $19\frac{1}{2}$ tons Ledger barks. One parcel of 42 bales ground Ledger stem bark analyses 9·74 per cent.

The exports of cinchona from Ceylon between January 1 and September 28 have been as follows:—1891, 4,047,285 lbs.; 1890, 6,529,317 lbs.; 1889, 7,151,076 lbs.; 1888, 8,899,948 lbs. The London imports of cinchona bark from all parts during the fortnight ending October 20 are placed at 2,071 bales, of which 1,658 bales came from Ceylon. A shipment of 66 bales Guayaquil bark, just imported, will be included in next week's drug sales.

CUBEBS.—Another arrival of 60 bags per *Kintuck* from Singapore will not tend to improve the position of this article.

DRAGON'S BLOOD.—There has been an arrival of 36 cases from Singapore per *Kintuck* this week.

GALLS.—*Turkey* galls remain very firm, and good blues are unobtainable below 65*s.* per cwt. In China galls business took place early this week at 52*s.* c.i.f. London, and 53*s.* c.i.f. Continental port for October-November shipment.

GAMBIER.—*Block* gambier is dull on the spot, with sales at $21s.\ 4\frac{1}{2}d.$ down to 21*s.* 3*d.* per cwt. At auction 287 free *Cubes* were bought in at 33*s.* 6*d.* to 34*s.* For new block gambier 21*s.* 3*d.* has been paid on the spot, and from $21s.\ 4\frac{1}{2}d.$ to 21*s.* 6*d.* for old ditto.

GAMBOGE.—The *Kintuck* has brought 12 cases from Singapore this week. This arrival opportunely relieves our market a little, and we hear that already small private transactions have taken place at a slight reduction upon the last auction prices on the strength of it.

GLYCERINE is very slow of sale. From 50*s.* to 52*s.* per cwt. is quoted for double distilled, s.g. 1·260. At the same time, it is said that business in crude glycerine for delivery all over 1892 has been somewhat more active since last week, at an advance of about 5 per cent. all round.

GUINEA GRAINS.—The market is a little easier, with sales in Liverpool at 19*s.* 9*d.* to 20*s.* per cwt.

GUM ARABIC.—The market remains quiet for all descriptions of gum arabic in anticipation of Thursday's auctions, which will be rather heavy.

GUM TRAGACANTH.—Good white Syrian seconds are somewhat quiet at 10*l.* to 10*l.* 10*s.* per cwt.; but there is a good demand, we hear, for qualities ranging in price from 7*l.* to 7*l.* 10*s.* per cwt. Our stock of these, however, is exceedingly low.

HONEY.—New Californian honey of fine white quality is reported to be exceedingly scarce. A small quantity is offering at 43*s.* per cwt., c.i.f. terms, from New York. Liverpool reports a continuation of the demand for *Californian* and *Chilian* honey, with transactions of some importance at the price ratio given in our last report.

INDIGO.—A public sale of 375 serons *Central American* indigo (all Guatemala, with the exception of 14 serons Mexican), offering a very poor assortment, was held on Tuesday. For good and fine coloury qualities there was hardly any demand, and prices for these grades ruled quite 3*d.* lower. Common and medium grades were fairly well competed for, and sometimes brought previous rates, though more often they sold at 1*d.* to 2*d.* per lb. decline. Altogether 175 serons sold at 3*s.* 3*d.* to 3*s.* 10*d.* for common to good Sobres, 2*s.* to 3*s.* for low to ordinary, and 3*s.* 6*d.* to 3*s.* 10*d.* for fair to fine Cortes.

OIL (CASTOR).—The Liverpool market is very slow. Good *Calcutta* seconds are quoted there at 3*d.* per lb., and first pressure *French* oil is held nominally at 3*d.* per lb.; but holders would most probably show themselves willing to take less—indeed, some offer at $2\frac{15}{16}d.$ per lb., and we hear that considerable sales have been made at secret prices. From Calcutta, under date of September 30, there is the same old tale—light stocks, small production because of the rains, and a firm market. Castor seed was a trifle cheaper, because it could not be worked owing to the continuance of the rains.

OPIUM.—The London market is active, with a good demand for manufacturing-opium. That variety is reported

about 6*d.* per lb. dearer since last week, 8*s.* per lb. having been paid for it. Salonica is also firmly held at 8*s.* 6*d.* to 9*s.* per lb. In soft shipping no business is reported. For Persian opium 10*s.* per lb. is asked, but we understand that sales have been made at 9*s.* 6*d.* per lb. for good quality. Smyrna reports say that between October 3 and 9 73 cases were sold on the Smyrna market. With the exception of 15 cases Malatia and 5 cases Karahissar, the whole of this was Yerli and Talequale. The arrivals since the opening of the season were:—In Smyrna, up to October 9, 2,393 baskets, against 1,098 in 1890; in Constantinople, up to October 7, 1,560 baskets, against 2,104 in 1890.

POTASH SALTS.—*Permanganate* has been advanced 5*s.* per cwt. upon the conclusion of the new agreement among the German manufacturers. Large crystals are now held for 70*s.*, small ditto for 65*s.* per cwt. It is said that even at these prices the preparation of the article scarcely pays the makers. English *Refined saltpetre* is held for 21*s.* 9*d.* in kegs, and for 20*s.* 9*d.* in barrels. German refined offers at 20*s.* per cwt.

QUICKSILVER.—The fresh advance of which in our last report we spoke as impending has not been long in coming. On Monday the "Baron" declared his price to be 8*l*, an advance of 5*s.* per bottle. This he did after selling a considerable quantity at 7*l.* 17*s.* 6*d.* Secondhand holders are very firm, and have made sales up to 7*l.* 19*s.*

QUILLAIA remains scarce, and is selling at 32*l.* per ton in Liverpool.

QUININE.—One or two minor transactions, about 10,000 oz. altogether, are reported at 9¼*d.* per oz. for German bulk in second-hand. The following are the present prices quoted by the makers for their respective brands:—*Howard's*, bulk, 1*s.* 1*d.* to 1*s.* 2*d.*; vials, 1*s.* 3*d.* to 1*s.* 4*d* per oz.; *Whiffen*, bulk, 1*s.* 1*d.*; vials, 1*s.* 3*d.* per oz.; *Pelletier*, vials, 1*s.* 9*d.* per oz.; *Milan*, bulk, 11½*d.*; vials, 1*s.* 1½*d.* per oz.; *Zimmer & Jobst*, bulk, 11½*d.* per oz; *Auerbach*, *Brunswick*, and *Mannheim*, bulk, 10½*d.* per oz.

SHELLAC.—The advance which set in strongly last Thursday continued on the following day, when large sales (totaling to several thousand cases) were made at rising rates. For good fair TN *Orange* on the spot up to 92*s.* per cwt. was paid, and for delivery Oct., 94*s.*; Nov., 96*s.*; and Dec., 97*s* per cwt. *Garnet* lac sold at 90*s.* 6*d.* for good free unworked on the spot, and at 90*s.*, c.i.f. terms, for Oct.–Dec. shipment. On Monday the same tendency was observable, though in a somewhat less acute form, and for TN second orange, on the spot, 92*s.* 6*d.* per cwt. was paid. At auction the large supply of 1,422 cases was offered, and met a firm market with good competition. Some parcels were held at too high limits, but 949 cases sold at prices fully equalling the highest rates privately paid. These are equivalent to an advance of 7*s.* on orange, 4*s.* on garnet, and 2*s.* to 3*s.* per cwt. on button lac since the previous Tuesday. The following prices were paid:—*Second Orange*, fair pale to good reddish worked, 94*s.* to 96*s.*; ordinary block, 87*s.* to 89*s*; good block to loose pale unworked, 94*s.* to 97*s.*; livery to reddish cakey, 91*s.* to 93*s.* per cwt. *Garnet*, fair unworked TSN, 92*s.* per cwt. *Button*, blocky to good free firsts, 92*s.* to 97*s.*; ordinary to fair firsts, 93*s.* to 95*s.*; cakey seconds, 91*s.*; thirds, 82*s.* to 83*s* per cwt. Since the sale the market has been very firm, and a parcel of fine orange, ASSL, out of condition, for which 98*s.* could not be obtained at the auctions, has changed hands at that price. For TN December 99*s.* has been paid; and 95*s.* c.i.f. for TN October–December shipment. Under date of September 30, Calcutta reports a quiet but firm market, adding that there is very little lac to be had either on the spot or for forward delivery. Button lac was a little dearer.

SODA HYPOSULPHITE.—Ten shillings dearer all round. German make is now quoted at 7*l.* 10*s.* per ton, f.o.b. Continental port.

STICKLAC.—Holders of fair Siam still require 95*s.* per cwt. We believe that 92*s.* 6*d.* per cwt. is the highest price paid.

SIMAROUBA BARK.—We hear from New York that the entire supply of this article, which has long been in a neglected condition, has been bought up by a speculator, who will sell small quantities only at 8*d.* per lb.

TONQUIN BEANS.—In London the market for this article remains quite dull, and fine beans have sold at a slight reduction upon recent rates. The quotation is 7*s.* to 7*s.* 6*d.* per lb. for good to fine bold frosted black *Angostura*, and from 2*s.* 6*d.* to 3*s.* 9*d.* for good to fine black *Pará*. It is intimated that some of the damaged beans sold at auction in New York recently are likely to come on the open market, hence buyers are warned to exercise caution.

TURMERIC continues to advance in price. For good *Madras* finger 29*s.* per cwt was paid at the end of last week, and in fair *Bengal* root some small transactions were closed at 17*s.* 6*d.* per cwt. Seventy bags fair Madras finger were bought in at 28*s.* per cwt. at the drysaltery sales.

CHEMICALS IN THE NORTH OF ENGLAND.

THE Liverpool market, on the whole, continues fairly quiet, with only a moderate amount of inquiry, the principal changes during the week being in *Soda Crystals* and *Sulphate of Copper*, the former being about half-a-crown a ton higher, and the latter closing more firmly at an advance on last week's quotations.

The Newcastle market is very steady, and prices firm. *Recovered Sulphur* being very scarce, makers have advanced their prices. *Hyposulphite of Soda* has again been advanced, both English and foreign makers having put up the price ten shillings per ton during the present week.

BICARBONATE OF SODA.—Steady at 6*l.* 15*s.* to 7*l.* per ton, packed in 1-cwt. kegs, less 2½ per cent. discount, f.o.b. Liverpool.

BLEACHING-POWDER.—Firm at 7*l.* 5*s.* per ton in soft-wood casks, on rails at makers' works, Widnes and St. Helens; 7*l.* 7*s.* 6*d.* per ton f.o.b. Liverpool; and 7*l.* 5*s.* per ton f.o.b. Tyne. Hardwood casks are quoted 7*l.* 15*s.* per ton f.o.b. Liverpool, and 7*l.* 10*s.* per ton f.o.b. Tyne.

CAUSTIC SODA.—Steady at 11*l.* 15*s.* per ton for 74-per-cent., 10*l.* 15*s.* per ton for 70-per-cent., 9*l.* 10*s.* per ton for 60-per cent., and 9*l.* 5*s.* per ton for 60–62 per-cent. cream, all f.o.b. Liverpool, net cash; 77-per-cent. white is quoted 12*l.* 5*s.* per ton, and 70-per-cent. 11*l.* per ton net, f.o.b. Tyne. The production of this article is now being carried on by the Alkaline Reduction Syndicate Company on Tyneside, but, the output being small, it will not materially affect the market price.

CHLORATE OF POTASH firm at 5⅜*d.* per lb., less 5 per cent., f.o.b. Liverpool; and 5½*d.* per lb., less 6 per cent., f.o.b. Tyne.

HYPOSULPHITE OF SODA.—A good demand both for prompt and forward delivery, and English and foreign makes have been advanced 10*s.* per ton during the last two or three days. Quotations are now 7*l.* 10*s.* per ton in casks and 8*l.* per ton in kegs, in quantities of not less than 10 tons. Delivered in Manchester the price for casks is 8*l.* 2*s.* 6*d.* per ton, and kegs 8*l.* 12*s.* 6*d.* per ton; c.i.f. Liverpool casks are quoted 8*l.* per ton, and kegs 8*l.* 10*s.* per ton, all net cash.

SODA ASH steady. *Carbonated*, 48-per-cent. 5*l.* 8*s.* 9*d.* per ton; 52-per-cent., 5*l.* 17*s.* 9*d.* per ton; 56-per-cent., 6*l.* 6*s.* 9*d.* per ton, net cash, f.o.b. Tyne; 48-per-cent., 5*l.* 9*s.* 9*d.* per ton; 52-per-cent., 5*l.* 19*s.* per ton; and 58-per-cent., 6*s.* 12*s.* 9*d.* per ton. *Caustic*, 48-per-cent., 5*l* 6*s.* 3*d.* per ton; and 52-per-cent., 5*l.* 14*s.* 3*d.* per ton, net cash, f.o.b. Liverpool. Ammoninm process, 58-per-cent. alkali, quoted 6*l.* 12*s.* 6*d.* to 6*l.* 15*s.* per ton, f.o.b. Liverpool.

SODA CRYSTALS dearer in Liverpool market, prices having been advanced to 3*l.* 12*s.* 6*d.* per ton in 3-cwt. barrels, and packed in bags the price is 3*l.* 7*s.* 6*d.* per ton, f.o.b. Liverpool. Tyne market very firm at 3*l.* 3*s.* 6*d.* per ton for casks and bags, f.o.b. Tyne.

SULPHATE OF SODA firm at 40*s.* to 42*s.* 6*d.* per ton in bulk on rails at makers' works, and 55*s.* per ton ground and packed in casks, f.o.b. Liverpool; 40*s.* per ton in bulk, and 50*s.* per ton ground and packed in casks, f.o.b. Tyne.

SULPHATE OF COPPER firmer and higher prices quoted. For prompt delivery quotation is now 15*l.* 10*s.* per ton, and for forward delivery 16*l.* 10*s.* per ton, f.o.b. Liverpool.

SULPHUR (RECOVERED).—Very firm and scarce. Rock in bags is quoted 6*l.* 5*s.* per ton, and flowers 9*l.* to 9*l* 5*s.* per ton, f.o.b. Liverpool. Tyne quotation for rock in bags is 6*l.* 10*s.* per ton, net cash.

GERMAN MARKETS.

HAMBURG, October 20.

THERE have been few alterations of any importance in our drug market since our last report. Among the articles that have advanced are antimony, camphor, honey, jalap, ergot of rye, and beeswax. There is no change in citric acid, peppermint oil, cumin seed, spermaceti, and quillaia; but, on the other hand, cantharides and balsam copaiba are again cheaper.

ANTIMONY.—The speculative tendency in crude Japanese antimony has caused an advance in the low prices up to 45m., and no inconsiderable transactions have been concluded.

BALSAMS.—*Copaiba*: Offerings remain very considerable, and the article is consequently obtainable at low prices. *Peru* balsam: The market has been cleared, and more interest is being shown for it again. There have been no further arrivals. *Tolu* balsam: Unchanged, and obtainable at 2.75m.

CANTHARIDES are offering cheaply at 7m.

ERGOT OF RYE in very strong demand; up to 3.25m. has been paid for it.

HONEY.—*Chilian* is becoming exceedingly scarce, and the prices are advancing, especially for the better qualities.

JALAP is held for high prices; fine root can hardly be obtained now under 3.50m. There have been no arrivals at all.

QUILLAIA firmly held at 60m. to 65m. The arrivals remain very small.

SPERMACETI.—American remains firm, but the demand is slack. First quality refined, 3.40m.

WAX (BEES').—All varieties are again advancing in price somewhat, and the stocks in first hand have been cleared.

WAX (CARNAUBA) is lower; fair grey quality may be had at 80m.

WAX (JAPAN) for delivery is being offered at lower prices again. On the spot it is possible to buy at 76m. to 77m., according to quantity.

MR. SEPTIMUS VAUGHAN MORGAN, one of the proprietors of this journal, is on a tour round the world, and may be addressed by firms or subscribers as follows:—From October 16 to October 22, Poste Restante, Malta; from October 29 to November 12, Poste Restante, Cairo; and afterwards, until further notice, Poste Restante, Bombay. For full itinerary, see this journal, October 3, 1891.

THE *South London Press* of last week contained a portrait and biographical sketch of Mr. G. S. V. Wills, who, the *Press* informs its readers, was born at Roade, in Northamptonshire, on February 14, 1849. At the age of 16 he went as an apprentice to Mr. Harris, chemist, of Stony Stratford; from here he went as an assistant to Mr. Bullus, at Hockley Hill, Birmingham, and thence to Hay, Herefordshire. In 1871 Mr. Wills accepted the appointment of private dispenser to the apothecary to her Majesty's household. It was while he was thus engaged that the idea of starting a college of pharmacy suggested itself, and a year after the present College of Pharmacy was established in St. George's Road, Southwark. In 1873 Mr. Wills passed the Minor, married in 1874 Miss Goode, of Hay, and in 1876 passed the Major. From that time the college steadily progressed and in 1881 a move was made to the present premises at Trinity Square, Borough. In addition to recording his achievements in pharmacy the *Press* mentions that in the South of London Mr. Wills is well known as a scientific lecturer, especially in connection with Upton Chapel, of which he is a member.

THURSDAY'S MARKET NEWS.

42 CANNON STREET, October 22.

A FAIR amount of business has been transacted in the drug and chemical markets during the week under review, and a better feeling generally prevails. In drugs there have been only a few alterations, the principal of these being advances in opium, Malta cumin seeds, Chilian honey, and raw camphor. Gamboge and Cape aloes are expected to show a decline at the auctions next week, owing to increased supplies. The cinchona sales showed no quotable alteration in value. Copaiba balsam is reported lower. H.G H. peppermint oil is a shade easier, perhaps. Ylang-ylang is reported much dearer. Fine Tonquin beans are somewhat easier. Simarouba bark and colchicum root are much higher. In chemicals cocaine, permanganate of potash, and cream of tartar have advanced. German camphor is lower, citric and tartaric acids are dull, and quinine has touched the lowest price on record. The following represent the principal alterations in "outside articles":—Higher: Shellac (which has been "the article" of the week), quicksilver, antimony, hyposulphite of soda, German potato-spirit, chillies, nutmegs, turmeric, soda crystals, recovered sulphur, and sulphite of copper. Lower: Guinea-grains, pimento, Central American indigo, gambier, and pepper. The bank-rate is unchanged at 3 per cent.

PROPOSED NEW SHELLAC CONTRACT.—The new contract form for shellac which has been talked about for a year or more is likely to be put into force soon. A meeting of firms interested in the article will be held next week to consider the terms of the contract.

BUCHU.—The *Mexican* has brought 13 bales this week, which come to a bare market.

CASCARA SAGRADA.—Part of the arrival which we mention elsewhere will be offered for sale next week. It is at present possible to buy at 27*s.* good bright bark. This is the figure to which the price was recently raised after the market had been cleared at 25*s.*

CINCHONA.—Next Tuesday's sales are likely to be heavy; they will include a parcel of 660 packages *East Indian* bark.

COCAINE is firm, and one of the German manufacturers has advanced his quotation to 24*s.* for *Hydrochlorate*; but we believe that other brands can still be bought at 23*s.*

COLCHICUM ROOT is dearer, and business has been done, it is said, at from 45*s.* to 52*s.*, according to chlorate.

CUMIN SEED.—For new *Malta* 42*s.* is now asked, which shows a fresh advance in the market. Old crop is sold this week at 40*s.* per cwt. *East Indian* and *Mogadore* cumin seed are held for 25*s.*, and *Syrian* at 20*s.* per cwt.

ERGOT OF RYE.—*Spanish* ergot is quiet at 1*s.* 5½*d.* on the spot. A sale of 10 cwts. to arrive was made yesterday at 1*s.* 5*d* per lb., London terms, and another 10 cwt. parcel is offering at the same price. *Russian* ergot is not offering on the spot.

GALLS.—*China*: Business is reported on the spot at 58*s.* 6*d.* per cwt. for good quality, and for delivery at 52*s.*, c.i.f.

GAMBOGE.—There has been an arrival to-day of 5 cases from Singapore by the *Glenogle*, and further consignments are expected.

GINGER.—A sale of 150 bags *Bengal* ginger is reported to-day at 23*s.* to 23*s.* 6*d.* per cwt. on the spot.

GUM AMMONIACUM.—We are informed that the statement in our last report that a certain lot of gum ammoniacum sold after the last drug sales at 50*s.* per cwt. was incorrect, in so far as the price actually paid was a good deal higher—nearer 60*s.*, in fact.

GUM ARABIC.—For some time there have been offers on the market here of fine Trieste packed Turkey gums at prices

much below the general market rates. Where the regular importers quoted 23*l.* the outsider would sell at prices which enabled his buyers to resell with a profit at 16*l.* The explanation of this mystery was given a few days ago in the disappearance of the proprietor of the undersolling firm. The most interesting parcel offered at to-day's gum sales was one of 27 bales (total weight about 4¾ tons) of genuine old Kordofan gum (Turkey sorts) such as has not been imported for about nine years. The shipment was brought from Suez in September, but it is said to have been buried for years in the ground in the interior of the country. The gum has become quite orange coloured with age, and has a somewhat earthy smell. An offer of 85*s.* was refused for it at the auctions, and the parcel was bought in at 6*l.* per cwt. *Senegal* gums are very quiet at about 70*s.* per cwt. nominally for Galam; and 65*s.* per cwt. for Bas de Fleuve. Of the new crop of *Barbary* gum not much has as yet come forward. It sells slowly at 50*s.* to 52*s.* 6*d.* per cwt. The gum sales proceeded quietly to-day, and out of a total of about 3,100 packages which was offered only a small percentage sold, partly at easier rates. *Amrad* and ordinary *Aden* gums were a trifle easier, and *Ghatti* was also a little lower—about 1*s.* to 1*s.* 6*d.* per cwt. for medium grades. Bright *Bombay* gum realised good value. Good to fine *Kurachee* gums were a trifle dearer, and in rather small supply. Fine *Aden* gums were also slightly dearer, and for good *Australian* rather full prices were paid. The following are some of the sales:—White *Mogadore*: Fair ambery and reddish, 77*s.*, *Australian*: Good pale frosted, 42*s.* to 46*s*; fair to common dark glassy and blocky, 36*s.* down to 21*s.* per cwt. *Kurachee*: Fine pale, 73*s.* 6*d.* to 79*s.*; fine amber drop, 65*s.*; fine to ordinary dark pickings, 44*s.* to 25*s.*; brown to good pale siftings, 19*s.* 6*d.* to 27*s.* Fine *Bombay—Aden*: Rather strongly olibanum—scented, 52*s.* 6*d.* to 54*s.* *Aden* sorts: Fine clean pale to ordinary mixed glassy, partly frosted, 60*s.* to 43*s.* 6*d.* *Ghatti*: Medium to good, 28*s.* to 45*s.*; ordinary to fair siftings, 12*s.* to 14*s.* 6*d.* per cwt.

HONEY.—*Chilian* is higher in price, and for a parcel of good hard white honey, of which 40*s.* was the recent value, 45*s.* was paid in the course of this week. Fifty cases *Californian* honey have just been landed; they are much wanted, and are likely to be in sale next week.

JALAP.—Firm at 1*s.* 9*d.* per lb., but no business is reported this week.

OIL (COD-LIVER).—The market is very firm at 80*s.* per barrel for 1889, and 75*s.* for previous season's non-congealing Norwegian oil.

OIL (OLIVE).—As yet the new quotation for eating-oils has not been fixed, the crop being very late last year. Reports generally say that eating-oils will be scarce, and that the crop has only yielded half of the average. The quotations are at present from 4*s.* to 6*s.* per gallon for Bari oils, according to quality.

OIL (PEPPERMINT).—According to the latest reports the New York market remains exceedingly strong, and sales of several hundred cases are said to have been made, mostly in 50-case lots, at about $3.10 for HGH bottled oil. On October 12 the New York quotation was from $3.15 in London. American oil (HGH) is hardly as firm as it was at the close of our last report, and we believe that 13*s.* 10½*d.* per lb. would be accepted on the spot.

OILS (ESSENTIAL).—*Ylang Ylang* is advancing, owing to reports that the new crop has yielded next to nothing. For the leading brand, which was 15*s.* last year, 17*s.* 6*d.* has already been paid. *Star Anise* is quoted on the spot at 6*s.* 3½*d.* to 6*s.* 4*d.*

OILS (VARIOUS).—*Cocoanut* oil remains very steady, the spot prices being 24*s.* 9*d.* for Ceylon (c.i.f., 23*s.* to 23*s.* 3*d.*); and 29*s.* to 29*s.* 6*d.* for Cochin (c.i.f., 26*s.*) *Cotton-seed* oil shows a steady market at 17*s.* 3*d.* for old, and 17*s.* 9*d.* to 18*s.* for new raw oil; while for refined oil the quotations are respectively 19*s.* 6*d.* to 19*s.* 9*d.* and 20*s.* to 20*s.* 6*d.* per cwt. Liverpool refined is somewhat easier at 20*s.* to 21*s.* per cwt. *Linseed* oil remains very quiet on the spot, 19*s.* 9*d.* to 20*s.* 1½*d.* being the quotation here, while for naked oil in Hull 19*s.* 4½*d.* to 19*s.* 6*d.* is asked; and Liverpool quotes 21*s.* to 21*s.* 6*d.* per cwt. for export casks. *Olive* oil quiet at the following rates for cargo oils:—Spanish, 42*s.*; Tunis, 39*s.*; Mogadore, 39*s.* per cwt. *Palm* oil remains quoted at 25*s.* for fine Lagos. The Liverpool market is quiet, but steady, at unaltered rates. *Petroleum* unaltered, Russian at 4 7/10*d.* to 4¼*d.*; American at 5 9/10*d.* to 5⅝*d.* per gallon. A parcel of 100 barrels water-white oil sold at auction on Friday last at 5⅝*d.* per gallon. *Rape* oil firm, brown at 29*s.*; refined at 30*s.* 6*d.* per cwt. In Liverpool refined Stettin oil is in fair demand at 33*l.* 6*d.* per cwt. At last Friday's oil sales 206 casks Archangel *Seal* oil sold at 19*l.* to 21*l.* for dark straw to fine straw; 18*l.* to 19*l.* 10*s.* for dark yellow to yellow; and 16*l.* 10*s.* to 17*l.* for brown oil. *Turpentine* firm, and tending dearer, at 27*s.* 9*d.* to 28*s.* for American spirits.

OPIUM.—The improvement in the London market position still continues. We understand that yesterday and to-day about 100 cases changed hands at full prices—viz., up to 8*s.* per lb. for old druggists' opium.

POTASH SALTS.—*Pearlashes* remain nominally quoted at 45*s.* per cwt. for best Montreal. From New York pearlashes are offering at 31*s.* per cwt., c.i.f. terms. *Chlorate* steady in price at 5⅜*d* per lb. *Bichromate* quiet at 3¾*d.* per lb. *Prussiate* firm at 10¼*d.* to 10½*d.* per lb. for yellow on the spot, according to brand.

QUININE.—A transaction between two brokers is reported to-day at 9*d.* per oz. for second-hand German bulk. The quantity thus sold was only 2,000 oz. This is the lowest price the article has yet touched. It is said that a good deal of business has been done quietly lately, of which no particulars have been allowed to transpire, but it has all been done at the price quoted on the market. The United States official returns show that during the first nine months of 1891 the imports of quinine into the States have been about 500,000 oz., and of cinchona bark 200,000 lbs. less than in the corresponding period of 1890.

SHELLAC.—On Wednesday the advance continued, and sales are reported to have been made during the day up to 97*s.* for second orange, and 93*s.* to 94*s.* for unworked AC. We hear that for December delivery TN orange 100*s.* has been paid to-day—some even say 101*s.* per cwt. For November delivery 99*s.* to 100*s.* was paid. About 500 cases sold at these figures. For blocky AC garnet 93*s.* per cwt. net has been paid, and for good free 94*s.* per cwt.

SPICES.—Zanzibar *Cloves* gained strength towards the close of last week, and several hundred bales changed hands on the spot at 3½*d.* per lb. for fair quality. At auction on Wednesday the market was quiet, and private rates were not quite maintained. For good picked Penang cloves 1*s.* 0¾*d.* was paid. *Chillies* continue to advance. For ordinary to fair Zanzibar from 42*s.* to 48*s.* per cwt. was paid. On Tuesday 150 bags Bengal *Ginger* were reported sold by private treaty at 23*s.* per cwt. In Liverpool 326 bags water-damaged African ginger (fire salvage) sold at 14*s.* per cwt. with all faults. At auction this week Cochin ginger sold steadily at unaltered rates; bold rough at 40*s*, bright cut at 47*s.* to 48*s.* per cwt. The demand for *Nutmegs* continues at very firm prices. Mace is not quite so firm. *Pimento* is cheaper again. About 600 bags sold at a decline of about ⅛*d.* per lb., medium to fair at 2 7/16*d.* to 2½*d.* per lb.

TONQUIN BEANS.—The *O. P. and D. Reporter*, in its issue of October 12, argues that there is little, if any, prospect of an improvement in the position of Angostura Tonquin beads. It states that on receipt of the crop of 1889-90 there were about 100,000 lbs. in first hands in the United States. The crop amounted to about 200,000 lbs., and that of 1890-91 is estimated at about 60,000 lbs., making a total stock in first hands for the two years of some 360,000 lbs., which, including the damaged goods, has all, or nearly all, passed into second hands. Should it be claimed that all the 80,000 lbs. sold at auction were totally unfit for use there remains a stock of 280,000 lbs. on hand for the two years' consumption, whereas the annual consumption is estimated at not far from 100,000 lbs., which would leave a surplus upon the market of 80,000 lbs. for the two years. In fact, however, the surplus is larger than this, since the damaged beans will, undoubtedly, enter into consumption in some shape. The 1891-92 crops is expected to amount to 150,000 lbs. It is due in New York next May.

TURMERIC remains quite firm, with very small stocks. *Madras* finger, slightly mixed with bulb, sold at 28*s.* *Bengal* turmeric is not offering at present.

Correspondence

Memoranda for Correspondents.

Always send your proper name and address: we do not publish them unless you wish: if you do not, please use a distinctive nom-de-plume.

Write on one side of the paper only; and devote a separate piece of paper to each query if you ask more than one, or if you are writing about other matters at the same time.

If you send us newspapers, please mark what you wish us to read.

Ask us anything of pharmaceutical interest: we shall do our best to reply.

Before writing for formulæ consult the last volume, if you have it.

Letters, queries, &c., will be attended to in the order received.

Chemists and Specialities.

SIR,—In reply to "A Manufacturer" (pity 'tis people will not write in their own names anything they have to say), I beg to point out to him that the extra expense and labonr involved in half-a-dozen small accounts as against one large one wonld be more than covered by the extra discount saved, over and above the goodwill of the smaller traders gained thereby.

One of the oldest and best-known lozenge manufacturers has always gone on this plan, steadily refusing to supply stores, and relying on small accounts, saying just the opposite of our friend "A Mannfactnrer"—that they prefer half-a-dozen small accounts in a town to one large one.

In conclnsion, let me assnre "A Manufacturer" that I am supplying three or four of my customers with goods of my own make who nsed to have proprietaries, and I hope all chemists will try to do the same if all manufacturers act on the lines of the one I am replying to.

Yours faithfully,

Teignmouth, October 10. JNO. E. RYDER.

SIR,—Three years ago the specialities manufactured by myself could have been counted on the fingers, notwithstanding that the business has been one of the best in the neighbourhood for fully half a century, and with a connection among better-class people which offered every inducement to have reliable specialities brought under their notice. Full prices were then obtained for Pears' soap, Beecham's pills, Eno's salt, and many more proprietaries, leaving a handsome profit, which showed to advantage in the annual balance-sheet. When the grocers and sundriesmen began to hackney these articles, and gradually encroached on what had always been considered sacred ground, and cut and carved the prices until the profit from Pears' soap was reduced from 33⅓ per cent. to exactly one denarius per dozen of soap on the cost price when delivered at the shop, this of course being farther reduced by entailed cost of storage and handling, nntil by the time the money was taken over the counter the profit became microscopic. I do not single out the above in any invidious frame of mind, as every patent or proprietary, in this place, meets a similar fate.

At first I took np the position of the mnch-vaunted educated chemist, and pooh-poohed the whole thing; but, alas! the mighty have fallen, and I realised just in time that Ph.C. + Br—ns was as essential to a successful business chemist as it was to the grocer-Ph.C., but with acumen and far-seeing buying capability.

Not only had the business fallen off, but goods which I used to show became bad stock, and took that aged appearance as if the allotted span had been run too soon—in truth, were shop-worn. Customers would only buy at a reduction, which so disgusted me that I resolved to strike out on different lines.

With an investment of less than 100*l.* I issued a price-list, bringing patents to rock-bottom prices, bought a great variety of bottles, caps, coloured papers, pots, and boxes, got a good printing-house at contract prices to run off labels for chlorodyne, Bow's liniment, a saline, cough-mixture, perfumes (a dozen varieties), extract of malt, and a host of others. These are all put up in a tasteful fashion, and, puffed in the list, created such an amount of activity as the old walls and governor had not seen for years. The result, notwithstanding the forebodings of my own conscience and the head-shakings of my friends, has been a complete success.

I now relegate every patent I have to buy to the depths of a back-shop, burn all bills and show-cards, smash up the fancy-glass tablets, and play the deuce generally with specialities (not my own) and the advertisements of those manufacturers who only look to fleecing the public and poor chemists. As showing the wisdom of my faction, the takings increased from 1,306*l.* in 1888, to 1,461*l.* in 1889, 1,765*l.* in 1890, and 1,842*l.* for 1891. The profits have increased in even greater proportion.

I find that to sell what a customer wants, but to lose no opportnnity of pushing one's own goods, is the paying rule in the end.

I do not believe Elliman or Blondeau et Cie will find it to their disadvantage to try and keep np their prices as they do, and as the success of their attempt lies in the probity and honour of both grocers and chemists who sign their agreement, I wish them a full measure of success, agreeing only that I am at liberty to push my own; not, however, by running down their preparations.

There has been far too much trusting to Providence and the Society to lift ourselves out of the quagmire, and the sooner chemists realise that they are not of the professional, but bnsiness class it will be the better for themselves. It may seem a little ridiculous, but alongside the bonnd copies of the *C. & D.*, the "Art of Dispensing," and other *C. & D.* series, should be found Smiles's "Self-help."

I enclose P.O.O. for my annnal subscription, and I can testify to the value you give me in return.

SCOTTIE. (53/35.)

SIR,—The last straw has broken the camel's back. I receive a circular saying that the St. Jacob's Oil Company are placing a 1*s.* 1½*d.* article on the market, and for which they will kindly charge us 11*s.* 6*d.* per dozen. This, of course, will be sold for 1*s.*

This case is just the same as Seigel's. I want to know, where is the living to come from? I have at once started a liniment of my own, which I shall push; but why cannot we have these things different? Again I ask the oft-repeated question: Why should we be forced to educate ourselves *ad nauseam*, in order that, when qnalified, we may be forced to sell medicines at a loss in order to compete with the grocer, who has not passed? *Cui bono?* Why do not such a body as the chemists of England leave off talking, and do, considering nnion is strength—cut the Society, who do nothing, and do something for onrselves? Such letters as this I have read in THE CHEMIST AND DRUGGIST for years, yet nothing is done. I see Mr. Wills, of the Westminster College, thinks of forming a society. I hope he will; someone must set the ball rolling. There is the case of weed-killer, quoted in your journal, which certainly should be taken note of; and I am with your correspondent in thinking that it is absurd that we must spend time and money in order to satisfy the examiners in the various subjects in order to sell poisons as such; but call them by any other name, and a grocer or a sweep can sell them. Your own argument that "the State makes chemists qualify, bnt cannot force the public to deal with them," is not quite fair, as the same State takes auctioneers, lawyers, and doctors under its wing, and protects them. No one but an auctioneer who holds a licence can sell as such, no one but a legally qualified doctor can visit or prescribe, and why should chemists be left out in the cold? Or, if you still argue that the State shall make them qualify, and then let outsiders sell drugs and chemicals if the public wish to buy them, why should they not let the public buy their poisons where they like, as everyone knows that scheduled poisons are not the only drugs that will kill?

I am sure that if a society were formed, backed by the majority of English chemists, and all the *pros* and *cons* were put before some of the likely members of Parliament, we might have a bill passed limiting the sale of drugs and

chemicals to those qualified to deal in such, fenced round by all necessary exceptions and provisos.

As the state of the business is at present, I cannot see what the extra subjects of examination are for. I know the microscope is often needed to see the daily takings of some of us, and analysis would be useful to see where the living profit is, but otherwise I do not believe in advancing the business educationally. Until things are altered, there is no field for an educated chemist at all.

Yours,
UNITED. (141/27.)

SIR,—With much interest I have read the various letters appearing in your columns under the heading of "Chemists and Specialities." I thoroughly agree with "Manufacturer." One can scarcely imagine chemists so devoid or ignorant of business principles as to expect wholesale houses or manufacturers to place buyers of quarter, half, or one dozen on the same terms as buyers of gross lots. The youngest apprentice knows that more labour is entailed in executing twelve orders for one dozen pills each than in a single order of one gross. As labour must be paid, consequently the twelve orders, receiving more labour, must be charged separately and collectively more in proportion. By the unreasonable tirade against "the unfortunate large buyers" one is led to believe there is much lack of true business principles in our trade. I fear some view the drug trade too much in the light of a profession, neglecting the baser metals, *£. s. d.* While an apprentice, I viewed my calling in the same noble light, but I have been rudely awakened to the fact that one must be alive in these days of stores, &c. Regarding the boycotting of patents, while I do not advocate the display of showcards or the adoption of means tending to foster an unremunerative branch, I cannot fall in with the idea that by substituting preparations they are helping to eradicate a trade evil. A customer who wants a much-advertised patent, and is induced to take some "special pills," "blood-mixture," or "digestive syrup," goes away dissatisfied; he has not got what he wanted, and "won't be happy till he gets it." And as long as patents are so extensively advertised, the public will have them. When wanting another patent, instead of returning to the pushing chemist, this customer next time meanders into the store, where he will be supplied with what he wants. Thus the would-be boycotter of patents is playing into the hands of his enemies, and adopting means that will ultimately boycott himself.

Yours,
HONOR. (141/62.)

SIR,—"A Manufacturer's" reply to Mr. Ryder, in reference to above, contains a remarkable lesson to those who, *nolens volens*, deal in popular specialities.

By his own showing it is possible to manufacture articles, and by means of persistent advertising supply the demand for them through the ordinary channels of retail trade to the public, leaving only a shadow of profit, if that, for the retailer, even when sold at the advertised prices. Indeed, the smaller tradesman is now every day called upon to supply certain popular specialities at prices which represent a loss on his outlay. That the manufacturer may find it more convenient, less risky, and most economical to have one large agent instead of half-a-dozen small ones, does not do away with the fact that the principle is directly detrimental to the interests of the latter, who have the same right to reap a fair profit on their sales as the larger agent, who has both opportunity and encouragement to "cut."

The remedy which "A Manufacturer" prescribes for the patent medicine and specialities disease, which has of late years fastened upon the drug trade, advising all that complain to find in "the still lower depths" of an unhealthy competition the cure for cutting, may forcibly strike the afflicted ones, who wish to live and let live, as being worse than the disease.

Were one or two specialities alone in question it would not be a matter of vital importance, but the flood of advertised proprietaries now in the market for supplying those very wants of the public, by reason of which the business of a chemist and druggist has evolved into a distinct trade, may call in the near future for more drastic measures than a mere complaint embodies.

Your correspondent concludes his letter by remarking "it is mere petulance to expect much where little is given." I would remind him that "every little maks a mickle"; also that it would not be an ungraceful act on the part of manufacturers did they give ungrudgingly more consideration to claims that are just and reasonable and consonant with fair business dealing.—Respectfully yours,

THE SUMMER BIRD. (139/26.)

SIR,—The patent medicine trade is a subject which seems never to lose its interest for the retail druggists of this country, if one may judge from your correspondence columns. In most towns of any size there is to be found one establishment from which patent medicines can be obtained at 'stores prices' for cash. This being the case, can the chemist reasonably expect the public to be willing to pay him from 20 to 30 per cent. more for any of the articles obtainable at the grocers'? I say most decidedly, no.

What, then, ask many of my *confrères*, are we to do? With your permission, Mr. Editor, I will endeavour to answer the question from my own experience. It is less than ten years ago since I commenced business for myself by opening a small shop (not pharmacy) in a town of about 7,000 inhabitants where two old-established businesses were already in existence, the patent medicine trade being nearly all in the hands of a cutting grocer. Being fresh (very) from Bloomsbury my mind was filled with the exalted position I, as a pharmacist, was called upon to fill, and so I boldly approached the local medicos with offers of my services as the dispenser of their prescriptions, and the petition for all and any analytical work which they could give me; but, alas! for those higher walks of pharmacy, my petitions were in vain. Then did I recall to mind a fact which I had seen stated in your valuable Journal, that chemists had need to be business as well as professional men, and with this (to me) new idea in my mind I ventured to launch out in an entirely new direction.

Noting which patent medicines were in most request in my neighbourhood, I put up proprietaries of my own as nearly resembling them in composition as possible. I then issued a list, cutting the prices of all patents as low as it is possible to cut them, with the result that my patents-account nearly trebled itself in three months. Then gradually I introduced to my customers my own preparations, in numerous instances making them a present of a bottle of the special article I wished to induce them to try. The result has more than answered my most sanguine anticipations; my patents-account has hardly varied since the first year I opened business, while my proprietary trade has increased by leaps and bounds. I have now a senior and junior assistant, and during the last two years have been compelled to remove my business to larger premises.

My shop has developed into a full-blown pharmacy, and my business, consisting as it does of my own proprietaries, is comparatively safe from the cutting piratical grocer or the "stores."

All my patent medicines that I can I obtain first hand, I never force my own preparations upon anyone, and the prices I ask for patents are as low as it is possible to sell them for, and, rather than be undersold, I am prepared to sell all patents at less than cost price.

Another point I would like to name is, that while I do not dress my window with patents, I do not keep them altogether in the background, believing it to be better policy to let the public know that even my stock of patents is larger and better-selected than at any other establishment in the town.

I am, Sir, faithfully yours,
UP GUARDS AND AT THEM. (145/40.)

Window Carboys.

SIR,—The accidental smashing of window carboys at Birmingham induces me to put on paper an idea I have often suggested in conversation—viz., to use empty carboys of glass, stained up to within an inch or two of the stopper, the remainder being left white. Such would have a bright appearance, be easy to move, and cause small damage in case of breakage.

Yours respectfully,
October 9. SENEX. (138/24.)

Mr. Burroughs in the East.

SIR,—I send you herewith some additional specimens from Beyrout and Neapolis—a specimen of beeswax and two of soap. One bears the trade-mark of a manufacturer in Neapolis, the ancient Sychar or Shechem of Jacob's time. The soap industry is one of great importance in Neapolis and there are six large factories there. The process is, I believe, the same as that described in my letter to THE CHEMIST AND DRUGGIST from Beyrout. I visited one of them on the main road to Baalbek. The doors and windows were wide open, and, on looking in, I was bidden to enter by the workmen. There was no sign of any boss or foreman, though the proprietor may have been one of the half-dozen busy men ladling lye from the stone troughs at the bottom of the percolators to the top of the mixture of ashes and soda. They addressed some instructive remarks to me which I took to signify that the soap was of excellent quality, which I would do well to invest in largely, and that they would highly appreciate something in the way of backshish, or, failing that, a few of the oranges which I was carrying to our camp for dessert. I held the bag open, and from their expressions of satisfaction was convinced I had guessed right. I found the soap first-rate, both for washing and shaving, but have not had any opportunity of testing it for laundry use. Near Neapolis there are enormous piles of ashes, the accumulation of centuries. The whole country abounds with olive-trees, and therefore the oil is very plentiful. The greater part of the soap used in Palestine and Syria is manufactured at Neapolis. The remnant of the Samaritans now live in Neapolis and its vicinity; only about 600 of them remain. Families have been engaged in the manufacture of soap for centuries.

There are at Neapolis two very ancient copies of the Samaritan Bible which were written before the time of Solomon. We happened to arrive there on Saturday, and therefore were enabled to attend their services and to see these copies of the Old Testament. The Scripture parchment is rolled on two round sticks covered with carved silver; the scroll is very highly ornamented with embroidered silk at the back. In reading one has to unroll one end of the scroll and roll up the other. All of the streets of Neapolis are very narrow, and some of them covered by dark archways, which support the houses built overhead. Passing along the main market-street, which is about fifteen feet wide, I asked my friend, Mr. Karey, the Baptist missionary, if there was any pharmacy in town, when he pointed before us, on the right hand overhead, to a balcony in which the pharmacist was seated. He recognised Mr. Karey, and invited us up. We entered from the street, along a narrow passage about fifty feet to the rear of the building, and ascended the stone stairway to the first floor. Here was an antechamber where all visitors and customers are expected to remove their shoes or boots just the same as if they were entering a private house. The streets in some of the Mahometan towns are anything but clean; but people are very particular to avoid bringing dirt into the houses, and leave their shoes in the anteroom and walk about in their stockings or with slippers. The pharmacy proper adjoined this room, and was stocked with rows of doctors' bottles, some of them of curious design, and all bearing Arabic labels. Quinine is a staple article of medicine. Amongst other drugs I recognised rhubarb, bicarbonate of soda, magnesia, ipecac, chloride of ammonium, antipyrin, bismuth, calomel, morphia, opium, and bicarbonate, chlorate, and bromide of potassium The pharmacist was clad in a long robe of silk, with narrow stripes of yellow and purple, and fastened at the waist with a silk sash; over this was a loose outer garment of black cloth. On his head was a large turban. His son, who assists him in the business, wore a fez without a turban. We were very cordially received both by the pharmacist and his son. The dignified gentleman represented on the diploma of the Pharmaceutical Society, with long robe and hair, and apparently taking things very easy, would make a very good Arab apothecary if he had his robe lengthened and his hair cut short and covered with a fez and a turban, substituting his ventilated slippers with a pair of red sandals and the scales with a string of beads. A cup of coffee should be handy by on top of the pedestal, and he should have a cigarette in his mouth or in the other hand. Our friends were unaccustomed to see members of the craft from outside parts of the world. They volunteered to give every information desired as they observed that I was much interested in seeing their pharmacy. The dispensing is done on a table in the centre of the room next to the anteroom, where are chairs and sofas, and where customers can wait for their medicines. The favourite seat of the elder pharmacist was in the balcony window, where he could recline and look up or down the street while casting up his accounts or pursuing his studies, or counting his beads—because during the month of Ramadan it is customary for all Mahometans to carry beads and with each one repeat a prayer to Allah, declaring at the same time that Mahomet is the greatest of all prophets.

The situation of Neapolis is very beautiful, being in a fertile valley on the side of Mount Gerizim. Mount Nebal is direct opposite. They are two of the largest mountains in Palestine. The sides which face the valley are hollowed out like an amphitheatre, and here the tribes used to gather in tens of thousands and chant the blessings and cursings of Jehovah upon the righteous and unrighteous of the land. There were luxuriant fields of half-grown wheat in the valley in March, and groves of leafy olive, pomegranate, and fig trees on the hillsides. On the summit of Mount Gerizim are extensive ruins of the ancient temple of the Samaritans. On our arrival and departure we were besieged with demands for backshish from troops of children and beggars, among whom were several lepers in various stages of decay. They were a sad spectacle—some with parts of their hands and faces missing or disfigured—so we were glad to give them some piastres to make their lives less miserable with. The Government, either from indifference or Mahometan belief in fatality, takes no precaution to keep the lepers from the public streets.

Yours truly,

S. M. BURROUGHS.

Mucilage in Mixtures.

SIR,—It has often puzzled me why you recommend the addition of acacia mucilage to certain mixtures, when it is not ordered by the prescriber. I have waited to see if anyone more competent than myself would take up the subject—some chemist "up West," perhaps, who has more to do with physicians, and who might know their views about adding mucilage when not ordered—but I have seen no query from anyone. Last week, October 10, you recommend the addition of a drachm of citrate of soda as "a legitimate addition" to a mixture, and I wait no longer than the present week, to see if any reply or query should appear in your next number, October 17. None appears.

I ask, can the unauthorised additions to prescriptions be right? If right, how far may a dispenser go in adding or omitting what he chooses, in order, to his idea, to make a presentable mixture? In my opinion, dispensers should either refuse to dispense a prescription, when it comes from a qualified physician, or dispense it as written, *secundum artem*, without addition or omission.

A mixture that looks nice is not always what is desired. Take, for instance, "a bismuth mixture": I consider it an unpardonable thing to add acacia when not ordered to be put into the mixture, for the dispenser does not know the intention of the prescriber. The addition of mucilage to a bismuth mixture interferes with the therapeutic action of the bismuth when it is intended to act mechanically upon the coats of the stomach; thus, in almost every instance, the bismuth is rendered inert, and the intentions of the prescriber frustrated.

Let us look at additions to mixtures in another light. Take a mixture of compound tincture, or tincture of guaiacum, and the like; being allowed to add acacia, one dispenser would do so with the view of making a smooth mixture, which is necessary in this case, while another dispenser would make a smoother and more perfect mixture, in every way, without mucilage or the addition or omission of anything else. We cannot be too honest in dispensing physicians' prescriptions. We should look upon them as a kind of legal documents, and to deviate from them as breaking an agreement of a most serious character. There are two great reasons why medicines from the same prescription have not the same appearance, &c., obtained from different chemists—viz., a want of knowledge, and the use of plain water instead of distilled water. If the practice of adding to pre-

scriptions is to go on, it will become necessary for physicians to write on their prescriptions something to this effect: "To be made up as written." "Do not add mucilage," &c.

Chemists will lose the dispensing part of their business soon enough without driving it into the hands of the prescribers themselves.

68 Fleet Street, October 17. Yours, &c., GEO. P. POND.

The Benevolent Fund.

SIR,—We read with great interest the discussion which took place *re* the annuitants of the Benevolent Fund. The questions which affect the trade are many, and the interests often of an opposite kind; but, of all objects, there cannot be one about which all can so well agree as that of providing for the less fortunate members of the craft. In the printed circular of the fund it states that out of 14,000 persons whose names appear on the register and whose widows and orphans may be entitled to benefit by the fund, 10,000 do not subscribe. Is not this a standing disgrace to the trade, especially when we notice that a subscription as low as 2*s.* 6*d.* is only asked? Even in these days of large demands upon liberality, surely every chemist could spare 2*s.* 6*d.* per year for his unfortunate brother; 10,000 × 2*s.* 6*d.* = 1,250*l.* per year added to the funds, and nearly forty poor chemists relieved in a great measure of the burden of poverty!

Oh, you hard hearts;
You cruel men of pills!

St. Paul says, "If a man provide not for those of his own household, he is worse than a heathen." In the trade we have simply the household widened. Besides, how many of those 10,000 may not some day wish they had the votes produced by their own past subscriptions to help themselves? Who can see so far into the future as to say "he will never require help," little as he may think it now? Great and wealthy men have before this died in poverty. We trust that this letter may induce some out of the 10,000 who at present stand disgraced for selfish want of liberality to give at least 2*s.* 6*d.* out of their surplus for the one object about which there can be no contention, and which is so admirably and generously managed at practically no cost.

October 14. Yours faithfully, A. P. TOWLE & SON.

Cutting.

Two Shares (140/64) and *Magnolia* (141/65) write in reply to "Verb. Sap." of October 10, and in defence of the Chemists' Aërated Waters Association (Limited). They do not seem to appreciate "Verb. Sap.'s" point, which we take it was somewhat sarcastic. He said, in effect: "Here are you chemists very indignant when anyone cuts against you; why don't you set the example, and abandon your own cutting against us poor aërated-water makers?"

Mr. H. T. Butler, secretary of the association, says "Verb. Sap." is wrong in thinking that at present prices the association is working at a loss. The association last year paid a dividend of 8¾ per cent., and Mr. Butler states that the profit for the year ending September 30, 1891, is largely in excess of that of any previous year.

Dispensing Trade.

SIR,—The other day a woman came into the shop and requested to be served with twopennyworth of a prescription from a medical man for the following ointment:—

Ung. gallæ c. opio	℥ss.
Ext. belladonnæ	℥ss.

Ft. ungt. Use as directed.

I refused to supply this demand, telling her I would make twopennyworth of a similar ointment, but would not tamper with a prescription in that way. I was then told that twopennyworth had been made by another chemist. I, however, was not moved to do it.

Would you state what course you would follow?

October 12. Yours, &c., NEWCASTLE. (140/6.)

Aërated Waters in the Straits.

SIR,—The note in your issue of August 15 from the correspondent of "Drinks" *re* the trade in aërated waters is very misleading to firms in England. Before going further, we should mention other two firms, which your correspondent seemed to know nothing about—viz., Messrs. Barugh & Co., High Street, Singapore, and Nethersole & Co., Penang. The first-mentioned firm has, we think, second place here, and Nethersole & Co. are fourth, in point of output.

The profits are supposed by your correspondent to be very high. Well, such is not the case. If you consider, at the lowest, 10 per cent. breakages in bottling at a temperature of 86° to 89° F. all the year round, and heavy freight on acid, with the chance of losing a whole shipment through bad weather, there is not so much profit as would appear at first sight.

There is only one other remark to make in answer to the correspondent's reference to combination. It is this. There is one firm who have reduced their prices all round and given up charging for cases and bottles, with what results time will tell. The others are holding together as well as they can to keep up the small profits they have been used to.

Singapore, September 11. Yours, &c. SCRIBO. (139/13.)

Full up in South Africa.

SIR,—I think your statement in THE CHEMIST AND DRUGGIST, of August 8, wherein you say there is a good opening for qualified chemists' assistants in South Africa, is very misleading, as from what I hear from all quarters, and from my own experience, I find that all the chemists are full up, and likely to be for some time. Besides, the scope for assistants being small, the salaries are, in comparison, not better than in England, and comforts less.

Cape Town, Sept. 9. Yours truly, PESTLE. (144/40.)

From Gibraltar.

OUR travelling correspondent writes: "You will be glad to hear that a firm here have undertaken to personally solicit the subscriptions of such as are not with you already, and to repeat this each year, so that you may know of any trade changes, &c.

"Druggists in the outside districts of Spain, as well as those on the African coast, frequently draw supplies from Gibraltar, and they will all be personally looked after in future, so your lists of buyers should be fairly complete. Impress on your advertisers the need of illustrating their goods, as the more common language is Spanish, and, with the Moors, Arabic; but illustrations appeal to all."

Ung. Zinci Carb.

SIR,—*Re* your reply to "Country Chemist" (132/39), I should read "ung. zinci carb." as "carbolated zinc ointment" (ʒj. ac. carbol. to 1 oz. ung. zinci). In fact, this is a preparation in every-day demand with me

Yours, WALES. (144/48.)

LEGAL QUERIES.

143/30. *Veritas.*—If an indoor assistant, paid monthly, receives a month's notice ten days after his pay-day, what salary is he entitled to? To the proportion which ten days bears to a month.

143/20. *Salmi* asks, "Can the words, 'Natural health salt,' or 'Invigorating health salt,' be used on labels for effervescing powder by anyone?" We should be surprised to know that such titles as the above could be registered and thus retained for the exclusive use of any trader. But we cannot say for certain that such titles have not been registered, and we can never be sure that someone may not put in a claim. Often more doubtful titles than these are submitted to us. It may be possible at times to say that

a certain title may not be used, but it is obviously impossible, as a rule, to declare that no one will challenge a title, however innocent it may look.

55/23. *D. P.*—You cannot have taken much notice of the proceedings in pharmacy during the past fow years if you are not aware that it has been held in the High Court that the unqualified chemist's assistant who sells a scheduled poison is liable to a 5*l.* penalty. This can be recovered by the Pharmaceutical Society only.

143/71. *Lac. Sulph.*—See pages 246 and 249 of this journal, August 15, 1891. From these you will gather that while it is still legal to supply the old lac. sulph. when "milk of sulphnr" is asked for, that article seems to be dropping out of pharmacy.

143/61. *Minor.*—A chemist and druggist qualified as snch by examination in Great Britain can be registered without further examination, and thus become entitled to carry on his business in any of the Anstralasian colonies.

139/72. *B. R. H.*—Yon have no claim on the father for goods snpplied to the son unless you can satisfy the court that the former had authorised the purchases either by express or implied sanction.

140/60. *S. H.*—We are hoping to get an authoritative reply to your important qnery.

142/57. *Cucumis.*—We believe some coroners' officers have asserted that pharmaceutical chemists may be compelled to serve on coroners' juries, but we should say they are wrong. The Juries Act of 1862 declares that pharmaceutical chemists can claim exemption from service "on all juries and inquests whatsoever." That seems definite enough.

145/68. *Guy Fawkes.*—A chemist is liable to a penalty if he make or sell coloured fires on nnlicensed premises; and the inspector of explosives has officially declared that a chemist's shop would certainly never be licensed. Something on the subjeot you require will appear in the DIARY.

144/42. *W. P.*—The transaction you describe does not seem to come within the description of brokerage. It is just an ordinary sale of a barrel of turpentine. It does not seem to us that the railway company are responsible for the loss of 27 lbs. weight, as, if we understand you aright, their clerk expressly reserved himself as to the weight when the barrel was received. Moreover, we should not call a turpentine-cask which was even "very slightly leaky," in good condition. We cannot tell what evidence as to the weight when sent may be adduced by tho vendors. The decision in a court would turn upon that. It would be absurd to refer a dispute involving 6*s.* 6*d.* to arbitration which would cost at least 2*l.* 2*s.* Fill the barrel quite full, and see if it wonld then weigh the quantity alleged, which is 27 lbs.—that is, between three and four gallons—more than you say yon have received.

MISCELLANEOUS INQUIRIES.

A large number of correspondents ask us for formulæ and other information already published in this journal. It is not fair to more careful readers that we should frequently repeat such information, and so long as the back numbers containing the formulæ or replies required are in print we must decline to do so. Back numbers of our weekly issue can be obtained from the publisher at 4d. each.

135/35. *Lindum.*—The ammonia carbonato for Cologne and Lavender Salts is simply the clearest and hardest pieces of the best carbonate.

135/30. *A. P. S.*—**Lobolia Bronchitis-mixtura.**—The following is a mixtnre given in the Royal Chest Hospital:—

Potass. iodid.	gr. v.
Tr. lobeliæ æther.	♏ xv.
Spt. chloroform.	♏ x.
Aq. distillat. ad	℥j.

For a dose.

You cannot improve mnch upon this, but for all and sundry you should give 8 grains of bicarbonate of potash instead of the iodide.

139/65. *H. S. G.*—The **Food Preservative** is just borax and boric acid. It is ridiculons to mix these. Either alone is a stronger antiseptic than a mixture of both, and, obviously, the acid has less physiological effect. It is thereforo preferable as a preservative.

138/9. *J. M.*—A good book has just been published by Pentland, entitled "Prescribing and Treatment for Infants and Children." It is by Dr. Muskett, of Sydney, the price is 6*s.* 6*d.*, and it is the very thing for counter-prescribing.

135/29. *Subscriber* (Clerkenwell).—(1) **Phosphorus, etc., Tonic.**—An ounce of Easton's syrup with 6½ oz of water coloured with ½ oz. inf. gent. co. (2) **Whooping-cough Mixtures:**—

Cochineal	4 grains
Bicarbonate of potash	"
Syrup	1 oz.
Spirit of chloroform	1 drachm
Water to	4 oz.

Boil the cochineal and potash with the water. When cold, filter, and add the other ingredients.

Give this alone in teaspoonful doses, but yon may add from 2 to 8 drop doses of tincture of beliadonna or ipecacuanha wine, when these are required.

135/42. *Pennoy.*—You mnst give us an easier one. There is no nse attempting to mix acetic acid and soap together in a furniture polish. Leave out the acid in the original, putting turpentine in its place, and we think your trouble will cease.

134/67. *Nomen.*—To clarify the vinegar add a drachm of isinglass to each gallon. When that has swollen slightly add an ounce of kieselgnhr; shake well, allow to settle for a few minutes, pour off from the sediment, set aside for a night, and decant.

135/27. *Cannon.*—(1) Cotton-seed, we think, but are not snre. (2) See reply to "Ebson."

141/17. *Inquirer.*—We believe all the manufacturers of morphia in this conntry advertise in this journal.

136/32. *R. M.*—The way to make **Concentratod Waters** is to dissolve, say, 1 drachm of tho essential oil in 1 oz. of S.V.R., and add this to 10 oz. of distilled water containing 2 drachms of light carbonate of magnesia. Shake well, and filter after a few hours. Of course the magnesia takes up a good deal of the oil. One drachm of the product is to be diluted to 4 oz. with water.

136/5. *Retlaw.*—(1) Dissolve the otto of rose in the smallest quantity of rectified spirit, filter from the insoluble stearoptene, and add to tho **Glycorino Jolly** while hot. (2) You cannot get at your profits by any system of percentage. Your balance-sheet ought to show exactly how much you tako out of your business every year; and that only will satisfy the income-tax officials if they happen to make direct inqniry.

136/21. *Ebson.*—Ginger-wine essence. See January 3, 1891, page 32. If you wish a sal volatile without spirit (or Liq. Ammon. Arom.), you must be content to have it less aromatic than the real article. Your plan is to use the pharmacopœial quantities of oils and ammonia (solution and carbonate). Place the oils in a gallon jar, and almost fill up with boiling water. When cold, add the carbonate of ammonia and the solution. Set aside for a day, and filter through paper damped with water.

46/17. *F. R.*—True, O king! but the principle remains intact.

154/4. *X. Y. Z.*—There is a very complete article in our DIARY for 1889 on preparations for the teeth, which we must ask you to consult. Quillaia is the best saponifying agent; but what the favourite perfume is, it would be hard to say. Americans seem to prefer wintergreen, judging from the flavour of most preparations from that side, but cloves, cinnamon, and peppermint predominate in some continental favourites. Anyone who takes the trouble to go through a file of THE CHEMIST AND DRUGGIST cannot help picking up many hints.

134/25. *N. H.*—The solution for repairing bicycle-tyres may be made by dissolving equal parts of gutta percha and asphalt in chloroform to form a thin paste.

44/19. *H. M.*—See the article on Aniline Marking Ink, by Mr. R. Wright, in our issue of March 21, 1891, page 418.

138/69. *Argento.*—White Lacquer:—

	Parts.
Bleached shellac	60
Manilla copal (freshly powdered)	60
Mastic	60
Spirit	1,000

Digest with frequent agitation (adding 100 parts of powdered glass to aid solution) for a fortnight; then add 1 part of boracic acid, and filter.

139/42. *H. H. H.*—A Modified man must pass *all* the examinations if he wishes to become a pharmaceutical chemist.

136/55. *W. G. M.*—We do not remember the advertisement you allude to.

58/28. *R. C. Der.*—We presumed that some kind of pediculi were referred to by our correspondent.

137/29. *N. A. D* (Davos Platz)—There are many colloid bodies, such as isinglass, which give a transparent jelly with water; but we do not quite understand your intention in using the term "indifferent stuff." Please explain, and tell us what the jelly is wanted for.

140/21. *Eucalyptus.*—You will find a formula for cremor eucalypti in THE CHEMIST AND DRUGGIST, November 2, 1889, p. 626.

135/32. *Reviver.*—Black Cloth Reviver.—For 1*d.* packets there is nothing better than ½ oz. carbonate of ammonia put up in paraffined paper, and directed to be added to a pint of water.

134/11. *G. L.*—You should let us know precisely what you want, or get the numbers containing the formulæ.

142/38. *Argent.*—The solution is regularly used for silver-plating. Silver is deposited from it.

144/61. *Medicus.*—What the Medical Council require is a certificate that you have passed the Preliminary examination and have commenced the course of professional study recognised by any qualifying body. See our issue of September 19. It is rather stretching the principle to take dispensing in a pharmacy as within the meaning of professional study, and we do not think that any qualifying body would so regard it.

137/47. *Antitoper.*—(1) We have published a large number of formulæ for Pick-me-up, which you might look through in back volumes. Your formula is not a very sound one:—

Sodæ bicarbonat.	gr. x.
Potassii bromid.	gr. x.
Tr. nuc. vom...	♏ x.
„ chiratæ	ʒj.
„ cinchonæ	ʒiij., or even ʒss.
„ gent. co.	ʒj.
Sp. am. arom.	ʒss.
Aq. camph. q.s., ut ft. haust.	

Obviously the potassium bromide will in this case counteract any good that the nux vomica may do. What you want to do is to counteract the effect of the debauch. Try the following:—

Liquor bismuthi	ʒj.
Spt. ammon. arom.	℥ss.
Tr. cardam. co.	ʒij.
„ nuois vom.	ʒij.
„ zingib.	℥ss.
Spt. chloroformii	ʒvj
Saccharin	gr. iij.
Aquæ ad	℥viij.

Mix, and after standing two days filter.

The dose of this is one fluid ounce, or less, given with as much water. (2) Some cases of Gripes in Children merely require plain dill-water—a teaspoonful given with a tablespoonful of warm sweetened water by sipping. But with this, or any other carminative remedy, you cannot counteract the results of injudicious feeding. A teaspoonful of castor oil with as much dill-water is the remedy in such cases. (3) See January 31, 1891, page 186, for a formula for rheumatic mixture. (4) Spelter is the name applied to impure zinc, which contains small quantities of lead and iron, as well as traces of cadmium, tin, carbon, copper, and arsenic, all of which have the effect of making the metal more brittle. Brass spelter is a mixture of two parts of copper and one part of zinc, and is used for soldering.

142/57. *Cucumis.*—Carbolic and sanitas soaps are sometimes used to place in urinals. The common thing is a block of naphthalene, which can be bought at a few pence per lb.

Information Supplied.

Galipinaris.—If our friend who requires to know what is "galipinaris" lived in a poor neighbourhood like this, and managed a third-rate pharmacy, which I am sorry we as qualified chemists have to do, he would have orders like the above daily. Galipinaris is simply calaminaris zinci carb. MELLIS. (138/64.)

Galipinaris.—Perhaps this is one of the various renderings that the names of many drugs are subject to. I would suggest a trial of lapis calaminaris levigat., coloured, if necessary, with a little bole armen.

In Lewis's "Dispensatory," 1801, calamine is mentioned as being used in eye-lotions; and in Hooper's "Dictionary," 1848, it states that calamine, mixed with rose or elder-flower water, is used as a collyrium.

Sandown, I.W. G. BROWN.

Information Wanted.

136/56. Formula for Eau de Lubin.

138/19. Makers and refiners of alum.

142/9. Makers of dating stamps (not indiarubber).

Pears' Soap

BURROUGHS, WELLCOME & Co.
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(25 inches high.)

These celebrated Statuettes are supplied free to Retail Buyers upon conditions to be obtained on application to

A. & F. PEARS,

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CHLORALAMID

SEE "BRITISH MEDICAL JOURNAL," 14 DECEMBER, 1889.

Declared by the highest medical authority in this country to effect sound and comfortable sleep better than any of the Hypnotics which have been introduced during the last few years.

DOSE, FROM 30 TO 50 GRAINS.

Important to Dispensers.—Tell the patient to dissolve the Chloralamid in Whisky or Brandy, and afterwards add cold water to taste.

DO NOT APPLY HOT WATER TO DISSOLVE OR THE PREPARATION WILL DECOMPOSE.

Full particulars for Medical Practitioners and Dispensing Chemists, giving also interesting Clinical Reports, will be sent Post Free.

This Preparation, securing sleep without any ill effects, neither interfering with the activity of the heart, respiration, temperature, digestion, or urine secretion, will not fail to be the most favourite Hypnotic of the future.

Wholesale Drug and Chemical Houses may obtain Schering's Chloralamid from

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SOLE WHOLESALE AGENTS.

Enterprising Pharmacists are invited to apply to the LIQUOR CARNIS COMPANY, Ltd., 50 Holborn Viaduct, London, E.C., for a Selection of Literature and Specimens of Caffyn's Liquor Carnis and Raw Beef-Juice Preparations.

PRESS EXCERPTS.

MEDICAL JOURNAL.	SUBJECT.	REPORT.
The LANCET, *August* 29, 1891.	Malto-Carnis (Caffyn)	"The title sufficiently describes this preparation, and our examination confirms the description. From the presence of uncooked juice of beef, and consequently meat albumen, it turns semi-solid on heating, and the cold filtered extract rapidly digests starch, while the presence of cocoa is evident to the taste. Analysis showed—mineral matter, 2 50 per cent. (rich in soluble phosphates); total solid matter, dried at 100° C., 66 28 per cent. Nutritious and stimulating elements like these are rarely found combined in so satisfactory a manner as in this new and interesting preparation of the Liquor Carnis Company."
The HOSPITAL, *February* 21, 1891.	Liquor Carnis (Caffyn)	"We have again made analytical examination of this meat preparation, and again find it **the best we have examined.** As we noted before, it consists of the expressed juice of the best parts of English beef. It is preserved by the addition of a harmless and useful carbo-hydrate. It is pleasant to the eye and taste, and contains in a most concentrated form the albuminous constituents of the meat from which it is made. It is not an extract of meat, made at a temperature above 130° F., and it is consequently a valuable food as well as a stimulant. It is the nearest in constituents to raw beef juice, and has the advantage of that form of nutrient, besides being always ready. We have tried it in several cases of acute disease with fever, and found it to answer admirably. In conclusion, we think the Company has succeeded in producing a first-rate article, of great value in the sick-room in all cases where tissue-waste is to be assisted and difficult digestion to be helped on its way."
The MEDICAL PRESS and CIRCULAR.	Liquor Carnis (Caffyn)	"Caffyn's Liquor Carnis is the uncooked juice of meat prepared by a cold process, with the addition of a carbo-hydrate. It is certainly rich in albuminoids, coagulable by heat, and is distinctly palatable in spite of the sweetness."
The JOURNAL OF LARYNGOLOGY and RHINOLOGY, *June*, 1891.	Malto-Carnis (Caffyn)	"This contains two-thirds or 66 per cent. of Caffyn's Liquor Carnis, in combination with Extract of Malt and Cocoa, and a dessertspoonful may be added to milk and sweetened to taste in a breakfast cup. The problem of combining a diffusible stimulant with easily assimilated animal food seems to have been met, and the preparation should be very valuable for weak digestions, cases of nervous depression, &c., and also to travellers, who will thus have at hand, in concentrated form, a very strong and highly nutritive food stuff. Our experiments with this preparation lead us to conclude that it is all that the manufacturers claim for it, and that it is a most valuable preparation of novel character."
The BRITISH MEDICAL JOURNAL, *August* 23, 1890.	Liquor Carnis (Caffyn)	"Caffyn's Liquor Carnis is undoubtedly a nourishing fluid, consisting of the uncooked juice of meat, or muscle-plasma, permanently preserved by the addition of a definite quantity of a carbo-hydrate. . . . A valuable food and tonic for infants and invalids." **Again, on March 28, 1891:** "We have examined specimens of this preparation, and find that the statements made by the proprietors as to its composition are substantially correct. It is a brownish-red fluid of very sweet taste and slight acidity, and is rich in unaltered albuminoids, having, no doubt, been obtained from flesh by a cold process."

[*To be continued next week.*

ESTABLISHED OVER 150 YEARS.

TELEGRAPHIC ADDRESS—"CYRIAX LONDON."

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BURGOYNE, BURBIDGES, CYRIAX & FARRIES,

Wholesale and Export Druggists,

Manufacturers of

Pharmaceutical Preparations. Commercial & Fine Chemicals.
Counter Requisites. Photographic Chemicals.
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IMPORTERS AND DISTILLERS OF ESSENTIAL OILS.

Dealers in

Druggists' Sundries. Chemical & Pharmaceutical Apparatus.
Patent Medicines. Surgical Instruments.
&c., &c. &c., &c.

SPECIALITIES:

WINE OF BEEF, MALT, IRON, AND CINCHONA (Burgoyne's).

Contains, in a concentrated form, combined in the most effective and presentable manner, Extract of Beef, both in the form in which it is usually taken, as well as in that of Peptonised Beef; Extract of Malt prepared *in vacuo* by the most improved modern method; Iron combined with Citric Acid; agreeable natural tonics as Cinchona, Gentian, and Calumba, rendered agreeable and palatable with Aromatics, and held in solution by a specially selected Medicinal Wine.

LIQ. BISMUTHI CO. C. PAPAINA.

Each fluid drachm of this preparation contains 4 grains of citrate of bismuth and 2 grains of papaine as the vegetable pepsin. It is an agreeable and active remedy for chronic dyspepsia and gastric catarrh. Dose, 15 to 60 minims.

CANTHARIDATE OF POTASH.

According to Dr. Liebreich's Formula.
8/6 per Tube of One Gramme.

FERRI PERBROMIDUM

(Fe_2Br_6). (BURGOYNE'S.)

We beg to draw attention to this preparation, which has been highly recommended by Dr. Hecquet in many cases of Amenorrhœa, Chlor-Anæmia, Corea, Diabetes, Epilepsy, Hydrœmia of Pregnancy, Leucorrhœa, Hysteria, &c. We supply this salt in a dry condition, but, owing to the deliquescent nature of the same, we recommend our Syrupus Ferri Perbromidi, a perfectly stable and palatable preparation; and also Syrupus Ferri Perbromidi c. Quininâ et Strychninâ.

PRICES:

Ferri Perbromidum	1/3 oz.	16/- lb.
Syrupus Ferri Perbromidi	in 1-lb. & ½-lb. bots.	10/6 ,,
,, ,, c. Quininâ et Strychninâ	,, ,,	12/6 ,,

The Strength and Doses of these Preparations are stated on the Label.

TUBERCULIN (Dr. Koch's).

1 c. cm. Bottle	6/3 each
5 ,, ,, ...	25/6 ,,

WHOLESALE DEPOT FOR

PARKE, DAVIS & CO.'S Fluid Extracts, Pharmaceutical Preparations, &c., &c.
DE LAIRE'S Vanilline, Vanilla Sugar, Heliotropine, Coumarine, &c.
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PEPSINE

PURE & FREE FROM ALL OBJECTIONABLE ODOUR.

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"50 TIMES."

PRICE 2s. 6d. PER OUNCE.

CONCENTRATED PEPSINE—POWDER,

"50 TIMES."

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As OUR BRAND OF "50 TIMES" indicates, one grain of either will digest 2,500 grains of coagulated egg-albumen, showing a strength 50 times greater than that required by the British Pharmacopœia.

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Evidence of Sales:—A Certificate signed by the Dealer's Wholesale House to that effect.

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THE ORIGINAL PREPARATION.

Price (in England) 10s. 6d. per pound, packed (for Dispensing only) in 10-oz., 22-oz., 40-oz., and 90-oz. Bottles.

HEWLETT'S "PERMANENT" LIQUOR FERRI IODIDI.
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SOLUBLE PEARL COATED PILLS

SPECIAL

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FOR

CASH WITH ORDER,

IN TEN-GROSS TINS.

	Per Gross s.	d.
Pil. Aloes et Ferri, P.B.	0	6
,, Colocynth. Co., P.B.	0	11
,, Colocynth. et Hyos., P.B.	1	1
,, Rhei Co., P.B.	0	6
APERIENT.		
105 *Each Pill contains ⅓ gr. of Calomel.*	0	6
ANTIBILIOUS.		
62 Hydrarg. Pil., Ext. Coloc. Co., Pil. Rhei Co.	1	0
262 Podophyllin, Ext. Coloc. Co., Ext. Hyoscy.	1	2
COUGH.		
164 Pulv. Ipecac. Co., Gum. Ammon., Pulv. Scilla, Saponis	0	7
CASTOR OIL.		
239	0	6
TONIC.		
371 *(Blaud's Formula, Martindale's improved.)*	0	6
"LITTLE" APERIENT.		
458 Aloin, Podophyllin, Ext. Hyoscy., Jalapin., Ext. Nucis Vom., Capsicin.	5	0

Samples of the above, with our Complete List, sent on application.

In ordering, please note Address, and see that the Label on each Bottle or Tin corresponds with the above Block.

WITHOUT A RIVAL!

From the time Medicine was first discovered by the Ancients down to the present none ever made such progress as

BEECHAM'S PILLS.

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The words "BEECHAM'S PILLS, SAINT HELENS," are on the Government Stamp affixed to each box.

Prepared only and sold by the Proprietor, THOMAS BEECHAM, ST. HELENS, LANCASHIRE, ENGLAND, in boxes at 9½d., 1s. 1½d., and 2s. 9d. each, with full instructions for use.

TOWLE'S CHLORODYNE

In **COUGHS, ASTHMA, BRONCHITIS, INFLUENZA**, &c., its effects are truly wonderful, immediately relieving the tightness of the Chest, allaying irritation of the Throat, promoting Expectoration, and speedily and effectually subduing the Cough.

It soothes the w aching of **CONSUMPTION**, relieves the harassing Cough, and often prevents those sleepless nights so trying to the sufferer.

In **CHOLERA, DIARRHŒA, DYSENTERY**, &c., it has proved itself a most valuable specific, quickly relieving the pain and spasms, and seldom failing to check the disease; for which property, as well as for its value in Sea Sickness (for which it is the best remedy known), it should be an indispensable article in every emigrant's outfit.

TESTIMONIALS.

"Superior to every other I have tried."
F. H. Green, M.R.C.S.,
Rochdale Dispensary.

"Peculiarly serviceable in Bronchial, Spasmodic, and Neuralgic Affections."
Alfred Aspland, F.R.C.S.
Consulting Surgeon to Ashton Infirmary.

"I have used it largely in Spasmodic and Painful Affections, Bronchitis and Neuralgia. It has the property of being readily combinable in ordinary prescriptions—an advantage over all similar preparations."
R. Trafford Whitehead, M.R.C.S.

A Surgeon writes:—"In Diarrhœa, Colic, Ague, Spasms, I have found it relieve more pain and cause more joy than any other article that can be named. Has proved itself a specific against Sea Sickness."
Island Bridge, Dublin.

"I am pleased to say that although I have not finished a quarter of the bottle (2s. 9d.) the pain has left my chest, and the cough is almost well." J. Brown.

Immediately Relieves

COUGHS, CONSUMPTION, ASTHMA, BRONCHITIS, TIC, SPASMS, HYSTERIA, DIARRHŒA, INFLUENZA, CHOLERA, CRAMP, ACUE,

Sea Sickness, &c.

REVISED PRICE LIST.

		Retail. s.	Retail. d.	Per doz £	Per doz s.	Per doz d.
Towle's Chlorodyne ..		1	1½	0	8	6
Ditto		2	9	1	3	0
Ditto	(3 fluid oz.)	4	6	1	16	0
Ditto	(8 „)	11	0	4	13	0
Liq. Chlorodyni (*Original and only Genuine Preparation*), ¼ lb.	2/6 each			For dispensing purposes		
Ditto ditto ½ lb.	4/6 „					
Ditto ditto 1 lb.	8/- „					
Winchester Quarts (6 lb) 7/6 per lb., bottles free.						
Towle's Antibilious Pills ..		1	1½	0	8	6
Ditto		2	9	1	3	3
Towle's Chlorodyne Lozenges ..		0	7½	0	5	6
Ditto Jujubes ..		1	1½	0	8	0
Ditto in bulk, bottles free, containing 1 lb., 2/9 each.						
Ditto ditto 1 lb. 10 oz., 4/6 „						
Ditto ditto 4 lb., 10/- „						
N.B.—The Commissioners will allow them to be sold by the retailers without further duty, provided they are simply wrapped in *paper*, and not enclosed in a *box, bottle*, or *packet*.						
Thornton's Celebrated Toilet Cream ..		1	0	0	9	0
Ditto ditto ..		1	6	0	14	0
Ditto ditto ..		2	6	1	4	0
Amboline (Registered Trade Mark) ..		2	6	1	4	0
The Thornton (Red) Lotion (Stamped) ..		2	6	1	4	0
Thornton's Paragon Hair Wash ..		1	0	0	9	0
Ditto ditto ..		2	6	1	4	0

Posters, Bills, and Showcards on application.

£5 worth (assorted or otherwise) Carriage Paid.

7 lb. Lozenges and upwards stamped with Chemist's own name, free of charge.

A. P. TOWLE & SON.

75 Back Piccadilly,
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DAKIN BROTHERS

(ESTABLISHED 1820).

MANUFACTURING CHEMISTS

AND

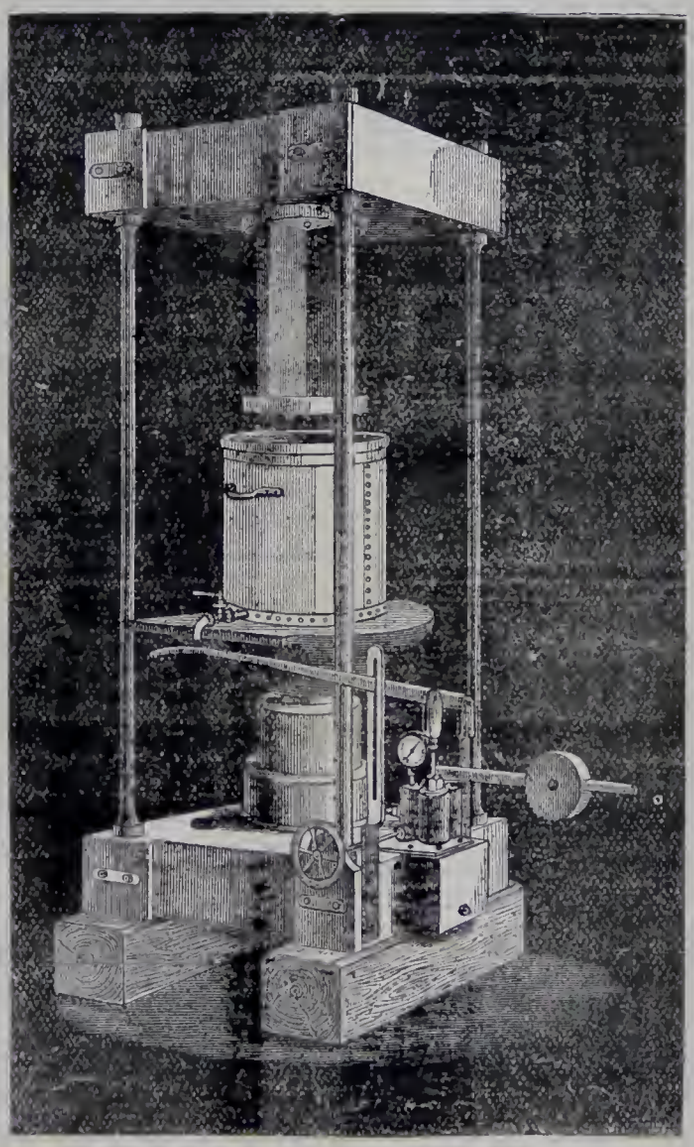
WHOLESALE AND EXPORT DRUGGISTS.

LINIMENTS,
TINCTURES,
SPIRITS, and
FLUID EXTRACTS
OF
OUR OWN
MANUFACTURE.

IN BOND.

DUTY FREE.

The Excise Regulations allow the Bottles to be as small as 5 ozs., and the total quantity as little as 2 gallons.



SPECIAL QUOTATIONS UPON APPLICATION.

We court a comparison of our Prices and Preparations with those of German makers.

ALL CASES WIRED & SEALED AT OUR WAREHOUSE.

PROMPT SHIPMENT.

Owing to the increase in our Business we have been compelled to extend our Premises, our address being now as follows:—

WAREHOUSE & LABORATORY—2 & 3 Cree Church Lane, Leadenhall St.
SUNDRIES & INSTRUMENT DEPARTMENT—29A Bury Street.
OFFICES—87A Leadenhall Street.

LONDON, E.C.

T. & H. SMITH & Co.

MANUFACTURERS OF

MORPHINE HYDROCHLORATE.
In powder and crystals.
MORPHINE ACETATE.
MORPHINE SULPHATE.
In powder and crystals.
MORPHINE TARTRATE.
Introduced by us and specially prepared for hypodermic treatment.
CODEINE.

APOMORPHINE MURIATE.
CAPSICINE. **CINCERINE.**
JALAP RESIN.
ALOIN.
SCAMMONY RESIN.
JALAPINE.
SCAMMONINE.

SALICINE.
CHLOROFORM PURE.
CHLOROFORM METH.
Our brand has been for many years known to the Wholesale Trade as absolutely pure.
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CANTHARIDINE.

EDINBURGH Address—21 Duke Street. LONDON Address—12 Worship Street, E.C.
NEW YORK Office—20 Cedar Street. DILLON & CO., Agents. [1]

COCKING'S JAPAN OIL OF PEPPERMINT

AND

MENTHOL CRYSTALS.

WE beg to announce that we have appointed **Messrs. JOHN BATT & CO., 39 Old Broad Street, E.C., SOLE AGENTS** for the sale of the above goods.

London Office,
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COCKING & CO.,
Yokohama, Japan

Schacht's Preparations.

SCHACHT'S LIQUOR BISMUTHI.
Absolutely pure. The original preparation, invented and introduced to medicine by Mr. Schacht in 1855. Its distinct superiority is universally admitted. In ½ lb., 1 lb., 2 lb., and 5 lb. bottles. Dose: 1 drachm diluted. When ordering, please to specify "SCHACHT'S."

SCHACHT'S LIQ. BISMUTHI SEDATIVUS.
Contains pure Bismuth and *Pepsina Liquida* in combination with sedatives. A formula most serviceable in the treatment of gastric pain. In 4 oz., ½ lb., and 1 lb. bottles.

SCHACHT'S SYR. CINCHONÆ ALCOHOLICUS.
A standard preparation, of definite alkaloidal strength, containing the entire medicinal properties of the finest Cinchona Bark. It is, in fact, *Bark minus the woody fibre*, and its efficiency has been proved by careful medical enquiry. Dose: Ten to sixty drops.

SCHACHT'S PEPSINA LIQUIDA (REGISTERED TITLE).
Fluid pepsine of extraordinary activity—tasteless, odourless, attractive to patients, and reasonable in price. Every teaspoonful when tested by the official B.P. process is *guaranteed* to effect the solution of 1,000 grains of albumen. Peptic power is the only test of value. Most of the fœtid and repulsive dry Pepsines have proved worthless. In 4 oz. bottles, 2*s.* 6*d.* each; and larger sizes for dispensing at a cheaper rate.

SCHACHT'S PEPSINA LIQUIDA C. BISMUTHO.
Each drachm contains in a concentrated form, besides the fluid pepsine a full dose of Schacht's Liquor Bismuthi. Dose: One drachm. In ½ lb. and 1 lb. bottles.

N.B.—Peps. Liq. c. Bismutho Co. contains, in addition, one gr. soluble Euonymin in each drachm.

SCHACHT'S PEPSINA LIQUIDA C. EUONYMIN.
Each drachm contains one grain of soluble Euonymin. Dose: One drachm. For dispensing ½ lb. and 1 lb. bottles.

SCHACHT'S LIQ. PODOPHYLLI C. BISMUTHO.
A perfect solution of Podophyllin, containing ¼ gr. in each drachm.

SCHACHT'S LIQUOR CASCARÆ DULCIS.
A pleasant and active form of Cascara Sagrada. Dose: One to three teaspoonfuls diluted. In 4 oz., ½ lb. and 1 lb. bottles.

SCHACHT'S INFALLIBLE RENNET.
An entirely new Essence, perfectly reliable, for the coagulation of Milk, and the production of Junkets and Curds and Whey. It is a preparation of the most wholesome nature, that *contains no salt*, and has no special taste, smell, or colour. In large bottles at 1*s.* of all Chemists. This Essence keeps well in any climate.

The above Preparations can be procured from Messrs. Barclay & Sons, W. Edwards & Son, and the Wholesale Druggists; or direct by post from

GILES, SCHACHT & Co., Clifton, Bristol.

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To the Trade only. Strictly Private.

ORDER SHEET.

.....189

Gentlemen,

Please to send immediately on receipt of this by .....

COCA PREPARATIONS
(ARMBRECHT).

	Wholesale	Retail price per doz.	£	s.	d.
Doz. Coca Medium (Imperial Pints)	36/-	48/-			
„ Coca Burgundy (Imperial Pints)	36/-	48/-			
„ Coca Malaga (Imperial Pints)	36/-	48/-			
„ Coca Port (Imperial Pints)	36 -	48/-			
„ Coca Sherry (Imperial Pints)	36/-	48/-			
„ Coca and Meat Wine (Imperial Pints)	36/-	48/-			
„ Coca Champagne	46/6	56/-			
„ „ „	26/6	33/-			
„ Coca Wine Extract	31/6	42/-			
„ „ „	49/6	66/-			
„ Coca Lozenges ...	13/6	18/-			
„ „ „ ...	22/6	30/-			
„ „ „ ...	45/-	60/-			
		£			

KOLA PREPARATIONS
(ARMBRECHT).

	Wholesale	Retail price per doz.	£	s.	d.
Doz. Kola Wine (Imp. Pint.)	36/-	48/-			
„ „ „ (½ Imp. Pint).	22/6	30/-			
„ Kola and Coca Wine	36/-	48/-			
„ „ „	22/6	30/-			
„ Kola Wine Extract	31/6	42/-			
„ „ „	49/6	66/-			
„ Kola and Coca Wine Extract	31/6	42/-			
„ „ „	49/6	66/-			
„ Kola Lozenges ...	13/6	18/-			
„ „ „ ...	22/6	30/-			
„ „ „ ...	45/-	60/-			
„ Kola and Coca Lozenges	13/6	18/-			
„ „ „	22/6	30/-			
„ „ „	45/-	60/-			
„ Kola, Coca, and Extract of Meat Lozenges ...	13/6	18/-			
„ „ „ ...	22/6	30/-			
„ „ „ ...	45/-	60/-			
		£			

.....Pamphlets for Distribution—No Charge.

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Address .....

Messrs. ARMBRECHT, NELSON & CO.,
2, 3, & 4 Duke Street (5 & 6 in Progress of Building), Grosvenor Square, W.

SPECIAL SUMMER CONCESSION.—If Cheque be enclosed with each Order, we offer a discount of 5 PER CENT. on not less than one dozen, Carriage Paid, England and Wales, and half to SCOTLAND and IRELAND

THE PATENT TAP REGULATOR

FOR FEEDING BOTTLES.

Made in Vulcanite & Pure Tin, & can be adapted to any ordinary Feeding Bottle in use.

These Regulators are the best ever brought out. The advantages are many and obvious. They are easi cleaned, simple in construction, perfect in action, and regulate the food or milk to the greatest nicety without injury to the tubing. The Tap, when turned off, precludes the possibility of air entering the stomach when the bottle is empty, thus combining a Feeding Bottle and Baby Comforter in one.

Put up on Cards—1 dozen Vulcanite, 4s. per dozen; 2 dozen Tin, 1s. 6d. per dozen

PRICE LIST OF FEEDING BOTTLES ON APPLICATION.

SOLE LICENSEE—

GEORGE SCRIVEN,

Medical Bottle Manufacturer and Druggists' Sundriesman,

BRIERLEY HILL, STAFFORDSHIRE.

FLOOR WAX

(THE ORIGINAL AMERICAN),

For Halls, Ball-Rooms, &c.; does not soil the garments; easily and quickly applied. Put up in 1-lb. packages, price 2/ per lb.

FOR SALE IN ENGLAND BY

WYLEYS LIMITED, COVENTRY.

"SEQUAH'S OIL." (Regd.)

SEQUAH'S PREPARATIONS.

SEQUAH'S PRAIRIE FLOWER,

SEQUAH'S OIL, AND

SEQUAH'S INSTANT RELIEF

Always give satisfaction.

SEQUAH, LIMITED, 44 FARRINGDON ST., E.C.

"SEQUAH INDIAN PRAIRIE FLOWER."

REGISTERED.

Established 1843. **THOMPSON & CAPPER,** Established 1843.

WHOLESALE & EXPORT HOMŒOPATHIC CHEMISTS,

55 BOLD STREET, LIVERPOOL,

AND

51 PICCADILLY, MANCHESTER.

ILLUSTRATED PRICE LIST ON APPLICATION.

THOMPSON & CAPPER'S DENTIFRICE WATER.

Sells well everywhere, its beneficent qualities being attested to by physicians in all parts of the world. (*See Testimonials*)

In 1s. 6d., 2s. 6d., 4s. 6d., and 8s. 6d. Bottles.

HUNYADI JÁNOS.

The strongest "**HUNGARIAN APERIENT WATER**" and "**BEST NATURAL APERIENT.**" We do not paste any "Diamond Mark" over original labels after importation. The **ONLY** guarantee of genuineness is the Signature upon label of "**ANDREAS SAXLEHNER.**"

PRICE: PER CASE OF 25 LARGE BOTTLES, 22/-. PER CASE 50 SMALL BOTTLES, 37/6. NET FOR CASH.

VIN MARIANI

CARBOLIC SMOKE BALL.

CIGARES DE JOY

EAU DE SUEZ

EAU DES CARMES

QUINA LAROCHE

INJECTION BROU

DESICCATED MALT

DUSARTS WINES & SYRUPS

SANTAL MIDY

Hamilton's Linseed Leaves

CHEMISTS CAN OBTAIN FROM ALL THE PATENT MEDICINE WAREHOUSEMEN.

THE WHOLESALE AND SHIPPERS SHOULD APPLY TO THE IMPORTERS,

WILCOX & CO., 239 Oxford Street } **LONDON**
GABRIEL JOZEAU, 49 Haymarket }

P.S.—Write for Gabriel Jozeau's Catalogue, which is the only complete list of French Medicines in the United Kingdom.

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THE ONLY GENUINE MINT ALCOHOL IS

DE RICQLÈS'

MINT ALCOHOL.

Recommended by the highest Medical Antheritics for Indigestion Stomach Ache, Heartburn, and Headache. It dispels immediately all uncomfortable feeling. Indispensable during the hot weather. An excellent article for the Toilet and Teeth. A grand Preservative during periods of Epidemics.

53 AWARDS, of which 15 are Diplomas of Honour & 14 Gold Medals

DEPOTS EVERYWHERE.

Manufactory:—Lyons (France), 9 Cours d'Herbouville

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Insist on the name De Ricqlès.

PURE

AMMONIA-SODA ALKALI

MANUFACTURED BY

BOWMAN, THOMPSON & CO., LTD.

Lostock Alkali Works,

NORTHWICH.

This Alkali contains 99 per cent. of Carbonate of Soda. It is the best and purest for the manufacture of Paper, Wood Pulp, Soap, Glass, Colour, and for the use of Bleachers, Printers, &c.

TRADE REPORTS

(WORTH NOTICING).

Mr. J. A. Moore, Chemist, Grimsby, writing on September 13, 1891, reports:—.

"The sale of Guy's Tonic is still increasing."

Messrs. Davison & Patten, Chemists, of Alnwick, writing on September 18, 1891, state:—

"We sell Guy's Tonic freely."

Mr. Y. Llewellyn, Chemist, The Triangle, Clevedon, writing on September 20, 1891, says:—

"Your medicines are in great demand here."

Mr. F. J. Lea, Chemist, 43 Tontine Street, Folkestone, writes on September 21, 1891:—

"I am judiciously distributing Books sent, and I have great pleasure in stating that my services are appreciated. To-day I have sold seven bottles of Guy's Tonic, and have every reason to believe I shall make a great trade for it.

PROGRESSIVE CHEMISTS

Are invited to interest themselves in our preparation. It has merit, is neatly put up, and continuously advertised.

Guy's Tonic (for Indigestion and Nervousness) can be obtained of the Leading Wholesale Houses. It is prepared in one size only, retailing at 2/9 per bottle.

PROPRIETORS—

GUY'S TONIC CO., 4 Ludgate Circus, LONDON, E.C.

"SALVINE"

The Scientific Dentifrice.

PRICE 1/, 1/6, & 2/6, OF ALL WHOLESALE HOUSES.

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All Chemists, Drug Houses, &c., publishing Price Lists are invited to send Copies of same, stating terms for Advertisements, to Salvine Co., 3 Oxford St., London, W.

HANDSOME VALUABLE SHOWCARDS FREE on application DIRECT.

INTERNATIONAL FISHERIES EXHIBITION, LONDON, 1883.

COD LIVER OIL.

The Only GOLD MEDAL For British Exhibitors was awarded to

T. J. SMITH,

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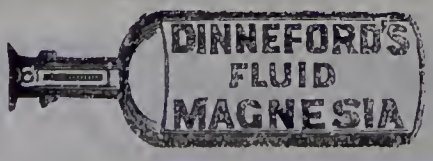
Importer of Norwegian, Newfoundland, & other varieties.

Low Quotations on application. Delivered at London or Liverpool.

DINNEFORD'S FLUID MAGNESIA



PERFECT IN PURITY AND UNIFORM IN STRENGTH.

The most efficacious antacid and mild aperient for Delicate Constitutions, Ladies, Children, and Infants.

OF ALL WHOLESALE DRUGGISTS.

SPECIALITIES—

OLIVE OIL (Cream White),

OLIVE MACHINERY OIL,

Dry Oranges, Orris Root, Juniper Berries, Honey (White), Sulphur (Sublime), Essence of Lemon, Essence of Bergamotte,

ACETIC ACID, CHEM. PURE,

CORKS OF EVERY DESCRIPTION,

LEGRAND'S IRON DRUMS.

Samples and Quotations on application.

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MANUFACTURING CHEMISTS, WHOLESALE AND EXPORT DRUG MERCHANTS,

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Manufacturers of all Pharmaceutical Preparations on the best and most improved principles. Quotations on Application.

DEALERS IN PURE CHEMICALS

For Medicinal, Photographic, and Commercial purposes.

Importers of Cod Liver, Castor, and Olive Oils; Extra Super Essence of Lemon and Bergamot, Otto de Rose, and all Essential Oils; Valentia Saffron; Vanillas; Fruit Essence; Carmine; Aniline Dyes; Bees' Wax, &c., &c.

Special Agents for Sicilian Sublimed Sulphur in 2-cwt. bags, and Rolled Sulphur in 3-cwt. casks. Most Favourable Quotations can be given to large Wholesale Dealers on application.

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CHININFABRIK AUERBACH

(Dr. SEYFERTH),

SULPHATE OF QUININE

And all other Cinchona Preparations.

STOCK KEPT IN LONDON.

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(VORMALS RÖSSLER),

FRANKFORT-ON-MAINE,

MANUFACTURERS OF CHEMICALS

For Pharmaceutical, Photographic, and Technical Purposes.

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CHROME ALUM. CHLORIDE OF SULPHUR. ACETANILIDE. TARTARIC ACID.

SOLE AGENT, FREDK. BOEHM, LONDON.

NEPENTHE.

THE SAFEST AND BEST PREPARATION OF OPIUM.

PRODUCES NEITHER HEADACHE, SICKNESS, NOR CONSTIPATION

PREPARED EXCLUSIVELY FROM OPIUM.

Although many new hypnotics and analgesics have been recently introduced, NEPENTHE still holds its position as THE hypnotic and sedative *par excellence*. "Nepenthe" is registered under the Trade Marks Act, and is our sole property. *No other preparation* should be substituted when Nepenthe is ordered in a prescription.

Sent out in bottles bearing a label in white letters upon a green ground. We prepare also *Double Strength Nepenthe*, and Glycerole of Nepenthe (eight times the single strength) for hypodermic injection.

PRICES AND TERMS ON APPLICATION.

FERRIS & CO., WHOLESALE AND EXPORT DRUGGISTS BRISTOL.

WILLIAM FOX & SONS,

WHOLESALE DRUGGISTS, &c.,

109 & 111 Bethnal Green Road, London, N.E.

Cabinet Varnishes, Polishes, Glaze, Finishing Spirit, Glues, Wood Stains, Gums, Resins, Shellacs.

PRICES FORWARDED ON APPLICATION. TELEPHONE NO. 1499.

"PEPSALIA"

G. & G. STERN beg to inform Chemists and the Trade that they will be pleased to EXCHANGE any OLD or DAMAGED STOCK for FRESH GOODS.

PEPSALIA is now made almost white, *and its stability is guaranteed.*

"PUMILINE"

G. & G. STERN beg to inform Chemists and the Trade that they will be pleased to EXCHANGE one kind of Pumiline Goods for other Pumiline Preparations, and also any OLD or DAMAGED STOCK for FRESH GOODS.

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BARCLAY & SONS, Ltd.

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The following kinds are in stock, viz.—

	Per doz.		Per doz.
Violettes de Grasse	22/, 33/	Lys du Japon	22/, 27/6
Violettes de Nice . ..	24/9, 33/, 49/6	Bouquet Fleurs de Grasse	..24/9, 33/, 49/6
Brise Vanda	22/, 33/	Brilliantine Fleurs de Grasse	8/, 12/, 15/
Australian Bouquet ..	19/6, 27/6		
Violettes d'Italie ..	19/6, 27/6, 38/6		
White Lilac	19/6 27/6		

SACHETS.

	Per doz.		Per doz.
Violettes de Nice	9/6	Muguet des Alpes	9/6
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EDWARDS' 'HARLENE'

WORLD-RENOWNED

HAIR PRODUCER & RESTORER.

1/-, 2/6, 3/6, and **5/6** per Bottle.

Liberal Terms to Shippers and the Trade.

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Handsomely-framed Show-card, in 15 Colours (size 16½ by 21½) A real work of art. Now ready, and will be supplied free, on application, or may be procured through any Wholesale House. Also Counter Bills, bearing the seller's name and address. OPAL GLASS TABLETS fixed on windows if desired.

EDWARDS & CO.

95 HIGH HOLBORN, W.C.

SAMPLES FREE.

Distillery & Plantations:
GLADSTONE, QUEENSLAND.

TIMBURY'S
PURE VOLATILE
EUCALYPTUS CITRIODORA OIL,
EUCALYPTUS MACULATA,
VAR. CITRIODORA.

TIMBURY'S
EUCALYPTUS OIL CO.,
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SAMPLES FREE. LONDON E.C.

OKELL'S ORIGINAL MONA BOUQUET

(First introduced by the late JOSEPH OKELL.)

Registered Trade Mark, "DOUGLAS PIER."

The most popular and best-selling Perfume in the market

RETAIL PRICES, 1/, 1/9, 3/6, 6/, 7/6, 10/6 per Bottle

ALSO 3d. SAMPLE BOTTLES.

Shippers and Wholesale Buyers supplied on the best terms by

THOMAS WEST, 185 & 1187 CHESTER ROAD, STRETFORD, MANCHESTER.

The Chemist and Druggist

SUPPLEMENT

Businesses Wanted.
Businesses for Disposal.
Premises to Let.
Auction Sales.

SATURDAY, OCT. 24, 1891.

Partnerships.
Situations Vacant.
Situations Wanted.
Miscellaneous.

A Copy of this Supplement is inserted in every number issued of "The Chemist & Druggist."

PLEASE NOTE.

ADVERTISEMENTS for this Supplement must be received at the Office, 42 CANNON STREET, E.C., not later than **5 o'clock on Thursday Evenings,** for insertion in the current week's issue.

Advertisements must be prepaid. Remittances by post may be made in stamps, or by postal order made payable to "EDWARD HALSE," and crossed MARTIN'S BANK (LIMITED). To ensure prompt attention address all communications, endorsed "Supplement," to The PUBLISHER of "THE CHEMIST AND DRUGGIST."

OFFICES: 42 CANNON STREET, LONDON, E.C.

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MESSRS. ORRIDGE & CO., 32 LUDGATE HILL, E.C.

CHEMISTS' TRANSFER AGENTS,

May be consulted at their Offices on matters of SALE, PURCHASE, and VALUATION.

The business conducted by Messrs. ORRIDGE & Co. has been known as a Transfer Agency since the year 1846, and is well known to all the leading firms in the Trade. VENDORS have the advantage of obtaining an opinion on value derived from extensive experience, and are in most cases enabled to avoid an infinity of trouble by making a selection from a list of applicants for purchase, with the view of submitting confidential particulars to those alone who are most likely to possess business qualifications and adequate means for investment. PURCHASERS who desire early information regarding eligible opportunities for entering business will greatly facilitate their object by describing clearly the class of connection they wish to obtain.

1.—**LONDON, W.**—Good-class attractive locality; Retail, Dispensing, and good Family trade; returns over £1,150 yearly; well-fitted shop; convenient house; full particulars on receipt of London reference.

2.—**LONDON, W.C.**—Situate in main thoroughfare; good-class Retail and Dispensing; returns from *profitable trade* about £1,100 yearly; well-fitted shop, and good stock; about £800 required.

3.—**LONDON, N.W.**—Good-class Family Retail and Dispensing; returns £950 yearly, chiefly cash; some very good proprietary articles attached; the shop has a single front, and excellent stock; about £750 required.

4.—**ESSEX.**—Within easy distance of town; old-established business of good class; returns at present at the rate of £1,100 yearly, *with good profits*; large well-fitted shop and good stock; convenient house; about £850 required; good introduction will be given.

5.—**NORFOLK.**—Large town; good-class Dispensing and Prescribing Business; returns last year £533; *good prices are obtained*; corner shop; situate in a good position; about one year's returns required.

6.—**PLYMOUTH.**—Death vacancy; General, Retail, and Dispensing Business; returns last year £470, *with good profits*; double-fronted corner shop and good stock; good house and garden; any reasonable offer will be accepted.

7.—**BUCKS.**—Mixed Business; old-established concern; situate in a first-class position; returns between £1,200 and £1,300 yearly; good house and commodious business premises; terms, small premium and valuation.

8.—**SUSSEX.**—Good market town; Family, Retail, and Dispensing Business; returns about £800 yearly; double-fronted shop and good stock; good house, garden, and conservatory; about £750 required.

9.—**BIRKENHEAD.**—High-class Retail and Dispensing Business; returns nearly £800 yearly; handsomely-fitted shop, and good stock; good house and garden; low rental, on lease; about £700 required.

10.—**WARWICKSHIRE.**—Residential locality; Retail and good Family Business; returns last year nearly £1,350, *with good profits*; well-fitted shop, large house, garden, stabling, &c.; about £1,300 required.

11.—**SOUTH COAST.**—Fashionable locality; good-class Dispensing and Retail; established many years; returns £700 yearly; *very profitable trade*; large, well-fitted shop and good stock; convenient house and premises; situate in main thoroughfare; price £600.

12.—**MIDLANDS.**—Good business locality; Mixed Retail, Dispensing, Prescribing, &c.; held by vendor 20 years; returns between £700 and £750, *with good profits*; rent low; good house and shop, may be rented or purchased; price £700.

13.—**SUSSEX.**—Fashionable seaside locality; good-class Retail and Dispensing Business; returns nearly £500 yearly; convenient house; vendor will accept any reasonable sale.

14.—**YORKSHIRE.**—Light Retail and Prescribing Business; all cash; returns £700 yearly; *net profit 33 per cent.*; situate in a prominent position; handsomely-fitted shop, and good stock; very low rental; terms, valuation of stock and fixtures only.

Particulars of any of the above will be furnished on application.

N.B.—NO CHARGE TO PURCHASERS.

Other Businesses, Town and Country. Particulars free on application. Personal applicants receive Messrs. O. & Co.'s direct attention and advice, where required, free.

TERMS FOR VALUATION ON APPLICATION. APPOINTMENTS BY POST OR WIRE HAVE IMMEDIATE ATTENTION.

Messrs. ORRIDGE & Co. invite communications from COLONIAL and FOREIGN firms where business of a confidential nature requires the especial attention of a London Agent.

SPECIAL NOTICE.—TO PRINCIPALS AND ASSISTANTS.

MESSRS. ORRIDGE & Co. Register Vacancies for Situations FREE OF CHARGE.

ORRIDGE & CO., 32 Ludgate Hill, LONDON, E.C.

F. J. BRETT,

VALUER, LEICESTER,

60 St. Stephen's Road.

References to principal London and Provincial Wholesale Houses, also to numerous clients throughout the United Kingdom.

BUSINESSES THOROUGHLY INVESTIGATED FOR BUYERS. 20 YEARS' EXPERIENCE, NO CHARGE TO BUYERS.

STOCKTAKING UNNECESSARY.—Stocktaking is always dreaded by Chemists, and with a competent Valuer is not necessary

F. J. BRETT is prepared to estimate or to value entire stocks as they stand with little or no inconvenience to ordinary business, and has repeatedly done so with entire satisfaction to those adopting this mode.

STOCKS AND FIXTURES BOUGHT FOR CASH.

NORFOLK.—Light Retail and Dispensing; returns £600; illness cause of sale; price £600; open to offer.

YORKS.—£550 returns; profitable Retail; satisfactory reason for sale; valuation.

DURHAM.—£1,200 returns; good old-established concern; price £600.

LAKE DISTRICT.—Unopposed Retail, capable of much increase; returns £700; good house; rent £20; price £350.

STORES, MIDLANDS.—Returns £1,600; energetic man could soon double; price about £800.

LONDON, S.W.—Returns £530; good-class; good house and garden; price £400.

BUSINESSES FOR DISPOSAL.

3s. 6d. for fifty words; 6d. for every 10 words beyond.

Please note that advertisements under this heading must be received at the office not later than 5 p.m. on Thursdays.

DEATH Vacancy.—A Business, in centre of a large village in Midland Counties; returns about £400 per annum; no other druggist; handsome fittings; well-assorted stock and low rent. Apply to Howorth & Parkin, Doncaster.

£600 wanted for Light Retail Business in North Lincolnshire; returns £900; splendid position; returns might be trebled; sold owing to death. "Limouis," Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

FOR disposal, at seaside watering resort, East Coast, splendid position, a well-stocked and fitted Chemist's Dispensing and Prescribing Business; doing £700; good prices; easy terms. Apply Messrs. Porritt & Co., 193 Queen's Road, Peckham, S.E.

OLD-ESTABLISHED and successful Business for sale in northern manufacturing town; Wines and Spirits; large turnover; proprietor retiring; price £1,400; rent £120; this will prove a sound investment. Address, "Statim," c/o John Ismay & Sons, Wholesale Druggists, Newcastle-on-Tyne.

CUMBERLAND.—Profitable Retail and Prescribing, with Wines and Spirits; well-fitted shop, in best position of good business town; returns £1,200; will be sold to an immediate buyer at valuation, about £450; an unusual chance. "Vendor," c/o Mr. Brett, Valuer, 60 St. Stephen's Road, Leicester.

HANLEY, Staffordshire. Chemist's Business; established 40 years; returns £700 under management; might be easily increased by principal; very profitable; rent £30, with excellent house; superior fittings and good stock; price only £350. Apply to Thos. Tomlinson & Son, 9 New Cannon Street, Manchester.

LONDON, E.C.—For sale, on account of dissolution of partnership, an old-established Business, in main thoroughfare; capital position; corner shop; returns £950, might be much increased by business man; 11 years present lease unexpired; price £700. Apply X., Messrs. Hearon, Squire & Francis, 38 Southwark Street, S.E.

MIDLANDS.—Market town, sixty miles from London; doing £12 per week profitable trade; plenty of scope for increase; resident dentist wanted; good house; capital position; must be sold; price, stock and fixtures at valuation. *Bonâ fide* purchasers apply, "Silex," Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

£360, or reasonable offer, for a Retail Drug and Prescribing Business in a good Midland town; two proprietors in 32 years; large well-fitted shop; superior house and business premises; no goodwill asked; other engagement in view; rent £60 a year. Apply to James Shilton, Chemist, Ablewell Street, Walsall.

SURREY (25 miles from London Bridge).—A good-class Light Retail and Dispensing Business, returning £900 per annum (increasing), making a net profit above the average; moderate rent, with good house and garden; price £750 Further particulars on application, "Kino," Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

EXCEPTIONAL chance A genuine newly-established Business, in pretty suburb of London; no opposition; with attention will do £20; nice house; stabling and garden; shop handsomely fitted; net rent £45; price £400; satisfactory reasons for sale; house might be purchased; no agents. Letters, "Calumba," c/o J. Sanger & Sons, 489 Oxford Street, W.

Messrs. CROCKER & CO.

Trade Valuers, Transfer Agents, and Accountants,

15 WALBROOK, E.C.

WEST MIDLANDS.—An old established Retail and Dispensing, with small proportion of heavy trade; returns £2,000; price £1,200.

SOUTH COAST.—Fashionable resort; good class Retail and Dispensing Business; returns £1,400, with good profits; very large shop, handsomely fitted and well stocked; every investigation; price £1,100.

KENT.—Good-class Retail and Dispensing; returns £830 at full prices, increasing yearly; net profit £350; good house and garden; price £800.

NORFOLK.—Unopposed Country Retail and Dispensing trade; returns approach £600; convenient house, and nice garden; price £350.

HANTS.—Retail, Prescribing, and Dispensing; in best part of busy town; returns £800; low rent; price £550; worth attention.

LONDON, S.E.—Retail and Prescribing trade; unopposed position; returns £500; price £400; rent £40; good house, &c.

LONDON, S.—Good-class Retail and Dispensing trade; returns £500; low rent; price £350; capital position in marketing thoroughfare.

NO CHARGE TO PURCHASERS.

VALUATIONS A SPECIALITY. TERMS ON APPLICATION.

BUSINESSES FOR DISPOSAL—Continued.

FOR Sale, a small Retail Business in the Midlands; main thoroughfare; would suit beginner; doing, under inferior management, £8 per week; well stocked and well fitted; price £150. Apply, in first instance, to F. B. T., 37 Great James Street, Bloomsbury, W.

BIRMINGHAM suburbs, thickly populated district; Retail and Prescribing; good prices; no patents; excellent house; returns nearly £450 with exceptional profit; Vendor attends medical school, and absent most part day, cannot give proper attention; would much improve with full supervision; positively no opposition, and great scope. "Medicus," Wyleys (Limited), Birmingham.

MANCHESTER (Suburb).—Light Retail and Dispensing Business, returning £500; net profit £200; rent £30; convenient house; 500 new prescriptions yearly; taking larger business, cause of sale; same hands 7 years; price £350, or offer; any investigation allowed to genuine applicants. J. G., Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

BIRMINGHAM.—Retail and Prescribing Business for Sale in pleasant growing suburb; corner shop; good house, and yard; established 18 months; returns over £400 and increasing; no opposition; all new fittings, &c.; a genuine concern, and splendid opportunity for man with about £300 capital; rent £25; owner bought larger business. Apply, "Pharmacist," c/o R. Tomlinson & Sons, Bond Street, Birmingham.

CITY OF BRISTOL.—For immediate disposal owing to ill-health, genuine Dispensing, Prescribing Light Retail, now taking £11 a week, but capable of considerable increase; no outting or opposition; profitable Prescribing and Tooth Extraction; connection with good sale for Horse and Cattle Medicines at good prices; situated on main road in densely populated district; large handsome shop, with superior ten-roomed house, with every domestic accommodation; rent £50; house could be let off for £30 a year; this is a chance seldom to be met with, and should be seen; price £400; no agents. Address, "Chemist," 35 Sommerville Road, Bristol.

BUSINESSES WANTED.

3s. 6d. for fifty words; 6d. for every 10 words beyond.

THOSE applications addressed to H. H. B. in answer to an advertisement in this paper, and which were returned, if renewed and addressed to Dr. Verity, 2 Hermitage Road, Richmond, Surrey, will greatly oblige advertiser.

GOOD-CLASS Retail and Dispensing Business; returning about £800 in an increasing district. "Exalgine," Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

A LIGHT Retail and Dispensing Business, within 60 miles of London; in small town preferred; please state rent, taxes, returns, and fullest particulars; price about £200; neglected business not objected to. Apply, H. Steer, Office of CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

WANTED, at once, a Light Retail, Dispensing, and Prescribing Business, London or country, doing up to £1,200 yearly; net profit must not be less than £250; a good Agricultural business entertained; cash ready for suitable business. Full particulars to J. M. A., 14 Clermont Road, Preston Park, Brighton.

WANTED, a good general Retail and Dispensing Business, returning about £1,500; Midland Counties, between London and Birmingham, preferred. A premium of £5 is offered to any commercial or other person introducing advertiser to seller of a business as above, provided the information is acted upon. Address, "Warwick," Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, London, E.C.

SITUATIONS WANTED—Continued

ASSISTANT or Branch Manager; outdoors; permanency; qualified. Y. X., Red Lion Street, Aylsham.

BRANCH Manager or otherwise; experienced; married; unqualified. K., 48 Emsworth Road, Kingston, Portsmouth.

JUNIOR or Improver; aged 19; 3 years' experience. S., c/o May, Roberts & Co., 9 Clerkenwell Road, E.C.

IN first-class business, or in Laboratory (Yorkshire preferred); Major; 22. E. J. Green, 9 Granby Terrace, Harrogate.

LOCUM, Trinity Square, Llandudno; disengaged early November. "Locum," c/o Mr. Carter, Chemist, Oswestry.

6 YEARS' experience; 2 hours daily for study required; state salary; disengaged. E. S., 8 Square, Chesham, Bucks.

MANAGER; qualified Dispenser; well recommended. "Ficus," 3 Westgrove Terrace, Point Hill, Blackheath Hill, S.E.

ASSISTANT; tall; aged 24; good General and Dispensing experience. Francis, Vansittart Terrace, Coatham, Redcar, Yorkshire.

MANAGER in absence of principal, or for lady; qualified; long experience. "Chemist," 8 Church Street, Salisbury.

AS Assistant or Dispenser to Surgeon; Minor and Apothecaries' Hall; outdoors. Jones, 38 Richmond Terrace, Charles Street, Hull.

DISPENSER to Surgeon or otherwise; London preferred; aged 25; good references; disengaged. H. C., 40 Friar Street, Reading.

MANAGER, or Senior; in London; outdoors; disengaged. "Ajax," Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

MANAGER or Senior; qualified; married; permanency; home counties or South of England preferred. X. Y. Z., 45 Maida Vale, W.

JUNIOR; aged 21; 5 years' experience; first-class references. M., c/o Wallis, 13 Gilbert Road, Kennington Road, London.

ASSISTANT, competent; aged 26; good Prescriber and Extractor; London preferred. "Pharmacien," Post Office, Bowden, Cheshire.

AS Junior Assistant; aged 21; Manchester preferred; 6 years' experience; good references. W., 9 Sewerby Street, Manchester.

ASSISTANT; immediately; ætat. 24; good experience and references. Particulars to "Statim," 123 Queen's Road, Bayswater, W.

AS Dispenser to Medical Man; outdoors; trustworthy; references. W., care of Mr. Jones, Chemist, Crawshawhooth, Rawtenstall, Lancs.

TRAVELLER, with Doctors' and Chemists' connection in West, wants additional commissions; good firms only. Forder, 28 Millman Street, W.C.

ASSISTANT (23); tall; disengaged; good references accustomed to Retail and Dispensing; moderate salary. Green, 7 Railway Street, Chatham.

WHOLESALE; as Manager; first-class experience; would travel. "Chemicals," care of Mr. Bradley, 13 Windermere Road, Highgate.

AS Manager; seaside or country; qualified; good experience; excellent references. "Chemicus," c/o Hutchinson, 68 Maxted Road, Peckham.

MANAGER, Senior or Temporary; aged 40; qualified; married; highest references; disengaged. A., 1 South Villas, Loampit Hill, Lewisham.

JUNIOR (21); part-time preferred; in Manchester, Liverpool, or any large town; 5½ years' experience. Norwood, Conisborough, Rotherham.

MANAGER or Assistant, with view to early purchase, in good-class Retail and Dispensing business. A. Shaw, Brow Bridge, Greetland, near Halifax.

MANAGER or Temporary; qualified; large experience; good Prescriber. N. B., Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

WHOLESALE.—As Warehouseman or Head Counterman; first-class experience; town or country. "Beta," 72 Eversleigh Road, Battersea, S.W.

ABROAD.—Wholesale, Retail, or Dispensing, or with foreign exporters; first-class experience and references. Martin, 30 The Bayle, Folkestone.

AS Warehouseman or Light Porter; can make preparations, put up stock; 16 years' experience; good references. Merriman, 31 Ashley Street, Birmingham.

MANAGER with view to succession; qualified, competent, experienced; aged 40; none but genuine business entertained. Williams, 7 Mitre Street, London.

SURGEONS, Druggists, or Country Wholesale; qualified Chemist seeks engagement, any department; considerable experience. "Cortex," 15 Avenham Lane, Preston.

MANAGER; aged 38; single; qualified; good prescriber, with all round experience; town or country; disengaged. Address, "Statim," 6 Charlotte Street, Fitzroy Square, London, W.

SURGICAL Instruments, Druggists' Sundries; Clerk or Warehouseman; 24; 7 years' practical knowledge; town or country; shorthand writer. P., 4 Tyndale Terrace, Canonbury, N.

ASSISTANT (29); qualified; 15 years' experience; situation as Branch Manager or Dispenser; outdoors; London preferred. 55/6, Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

ASSISTANT; 24; good experience; excellent references; qualified; disengaged; Manchester district preferred. "W.," Mr. Brummitt's, 136 Halliwell Lane, Cheetham Hill, Manchester.

AS Manager; qualified; 10 years' first-class experience; good Dispenser and Prescriber; first-class references; permanency; aged 25. Full particulars to "Minor," 47 Mount Street, Sheffield.

LOCUM-TENENS or Temporary Manager; country; during absence or otherwise; registered; competent; steady and reliable; highest references. "Extractor," 23 Florence Road, London, S.E.

ASSISTANT (23) in good-class business; 7 years' good town and country experience; undeniable references; disengaged. "Bonus," Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

PHARMACEUTICAL Chemist, registered Dentist, open for immediate engagement; experienced Dispenser; good Prescriber; excellent references. "Chemist," 1 Gordon Terrace, Malvern.

CHEMIST (qualified) open to engagement, early in November, as Branch Manager; good Prescriber and Extractor. "Chemist," Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

WHOLESALE.—Wanted a situation by a youth, aged 18 years, in a firm of Manufacturing Chemists; London preferred; nearly two years' experience. Address "Clerious," 6 College Road, Brighton, Sussex.

NOVEMBER 16.—Temporary, or Re-engagement as Manager; must be with option of purchase; London and country experience; aged 29; qualified; death vacancy preferred. Mr. E., 64 High Street, Maldon, Essex.

A LADY, with Minor qualification, and having several years' business experience, desires situation as Dispenser, Assistant, or Manager for small business. Address E., Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

SENIOR or Manager; long and varied experience; good Prescriber; accustomed to shipping business and the fitting of medicine chests; aged 36; height 6 feet; married, no family; permanency desired; references. "Menthol," Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

MISCELLANEOUS.

Special charges are made for Advertisements under this heading, which can be obtained on application.

Please note that advertisements under this heading must be received at the office not later than 5 p.m. on Thursdays.

CHEMIST doing a good-class trade in a provincial town would like to make arrangements with a good surgical instrument house to sell on commission and hold a small stock of appliances in general use; references to the best London houses. "Nomen," Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

BAYLY'S Original Baby Comforters, fitted with Ingram's black seamless teats, wood and tapes, No. 1, 12s. per gross; No 2, 18s. per gross; No. 1, with bone rings, 18s. per gross; No. 2, bone ring and large bone shield, 24s. per gross; Baby Comforters to sell at 1d., 6s. per gross net; 1d. packets of Glittering Frost, 8s. per gross; carriage paid; cash with order. Bayly & Company, Manufacturers, Broad Street, Nottingham.

AUSTRALIAN AGENCY.—A young, enterprising, and well-connected firm in Melbourne, doing business with Grocers and Oilmen, are open to negotiate for good agencies to work in with their present trade. Every information and highest references given by a leading firm of Australian shippers in London. Address, L. W. S., c/o Street & Co., 30 Cornhill, E.C.

SITUATIONS OPEN—Continued.

Please note that advertisements under this heading must be received at the office not later than 5 p.m. on Thursdays.

WANTED, an active Junior Assistant, accustomed to good Retail and Agricultural business; one who has had some little experience preferred; a comfortable home and progressive salary. Send photo and usual particulars to G. E. Knights, Chemist, Ely, Cambs.

A QUALIFIED Assistant, indoors, about 25, in a Light Retail and Dispensing business; must be quick and have a good knowledge of the business generally. Personal application, or by letter stating experience, height, &c., W. Elliott, 192 Uxbridge Road, Shepherd's Bush, W.

WANTED, reliable Junior or Improver (abstainer), for Drug and Stationery Business; no previous knowledge of stationery required; assistance given and time allowed to one studying for Minor. Salary required and references to Clegg & Son, Chemists and Stationers, Wantage.

AN Assistant; qualified; efficient Salesman; principally counter trade, with good proprietaries; a smart business man desiring a permanency would be liberally treated, and eventually given management with a commission. Apply personally to Ralph Hall, 552 Kingsland Road, N.E.

WANTED, an energetic Assistant, married preferred, for a Mixed Country Retail Branch, in a mining district in Durham; not necessarily qualified; good Prescriber, and able to Extract Teeth. Apply stating salary, experience, references, age, &c., to "Pharmacist," c/o Mr. Foggitt, Thirsk.

MANAGER for small business in populous working-class district, London; preference will be given to a qualified man having experience in similar kind of business. Send particulars as to previous engagements, &c., to G. A., c/o Hodginsons, Treacher & Clarke, 101 Whitecross Street, E.C.

WANTED, an energetic, qualified Assistant, about 22, to manage a small business; a good Prescriber and Tooth-extractor; highest references as to ability and character required. Please state salary, Arthur Stooke, Chemist and Dentist, 2 and 4 King Street, Milton-next-Sittingbourne, Kent.

WANTED, in good-class business, near Liverpool, thoroughly competent Assistant; qualified; of good address; active, obliging, and steady; reliable Dispenser. Apply, with references and photo, "Chemicus," c/o Ellams, Old Post Office Place, Liverpool; or 2 The Pavement, Norwood.

CLERK-WAREHOUSEMAN wanted by Druggists' Sundries and Patent Medicine Warehouse; must have a thorough knowledge of the business. Address, stating where at present employed, salary required, references, &c., "Sundries," Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, EC.

TRAVELLERS wanted (1 town and 1 country), with established connection, for a special cheap and good selling line in petroleum jelly (packed in tins, bottles, &c); liberal commission to gentlemen who can influence trade; state ground covered, &c. The Crown Chemical Works, York Road, Wandsworth, S.W.

WANTED, immediately, a Junior or Improver, aged about 20, for a first-class Country business, to work under a qualified man; must be able to put up stock neatly; hours very short; no Sunday duty. Apply, stating particulars, to G. H. Morgan, Whitchurch, Shropshire. Letters not answered in three days declined.

WANTED, by a firm in Bombay and Poona, a Pharmaceutical Chemist as Assistant; should be experienced in Retail, Wholesale, and Manufacturing, and not more than 26 years of age. Applications, stating age, salary required, and full particulars, to Phillips & Co. (Lim.), 3 West Street, Finsbury Circus, London, E.C.

TOWN Traveller for Druggists' Sundries business wanted for West and South-West districts; must be a quick, energetic man, with plenty of push, and able to introduce custom on a ground already yielding good returns. Apply, stating age, previous experience, and terms, 48/31, Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

MANCHESTER and Salford Provident Dispensaries Association.—Wanted, a Registered Chemist for Dispenser and Collector to the Lower Broughton Branch, to devote the whole of his time; the remuneration is a salary of £40 per annum, with 12½ per cent. on members' payments, now about £300, but which may be increased by an energetic man, and house, coal, and gas, guarantee for £100 from guarantee society required. Applications, with copies of recent testimonials, to be addressed to the Honorary Secretary, Mr. G. W. Hale, The Broughton Copper Company (Limited), Manchester.

SITUATIONS WANTED.

1s. for twelve words; 6d. for every six words beyond.

DISENGAGED; Major; 24. W. M. James, High Street, Market Drayton.

AS Assistant; 21; 5 years' experience. "Lewis," 317 Fulham Road, S.W.

PART-TIME, as Dispenser to Surgeon. "Statim," 26 Trinity Street, S.E.

TRAVELLER, town or country. D. T., F. Tucker, Esq., 90 Falcon Road, Battersea.

AS Assistant; aged 25; disengaged; references. W. H., 16 Blossom Street, York.

ASSISTANT; time for study; aged 23; London preferred. Edwards, 123 Lisson Grove.

JUNIOR (21); London; disengaged November 17. T., 19 Jordan Place, Walham Green.

MANAGER or Assistant; aged 37; height 6 ft. W. W., 55 Fore Street, London, E.C.

JUNIOR; aged 21; for November; good references; outdoors preferred. B. C., Oakengates, Salop.

PART-TIME engagement wanted with Chemist or Doctor. Pearson, 3 Wyndham Street, W.

JUNIOR, where Senior is kept; aged 20; 5 years' experience. Christopher, Heckington.

AS Manager or Senior; aged 30; married; Minor. M., 32 Lichfield Street, Hanley, Staffs.

LOCUM-TENENS; aged 40; qualified. Mr. Baker, 271, High Street, Camden Town, N.W.

LOCUM-TENENS; qualified; disengaged; experienced. "Æsculap," 32 Laurel Grove, Penge.

ASSISTANT; aged 24; experienced; disengaged. E. T., 19 Avenue Road, Lower Clapton, E.

LOCUM-TENENS or Assistant; qualified; 42; 5 ft. 11 in.; abstainer; disengaged. Lancline, Prestou.

JUNIOR; aged 24½ years; 7½ years' experience; salary 30*l*. J. H. Collyer, Calvertou, Notts.

JUNIOR; aged 22; qualified; good references. W. Owen, 72 Archway Road, Highgate, N.

WHOLESALE; no previous experience; Minor. Duncan, 32 Cranbrook Park, Wood Green, N.

LOCUM-TENENS for week or fortnight; qualified. Simpson, 76 Stockwell Park Road, Brixton.

QUALIFIED Assistant; 26; good references. A. Harries, 43 Lordswood Road, Harborne, Birmingham.

MANAGER, or Temporary; good references; married. "Minor," 18 Elvin Terrace, East Dereham.

LOCUM-TENENS; aged 24; disengaged; qualified. "Extractor," 2 Horton Street, Lewisham, S.E.

ASSISTANT; 6 years' good experience; disengaged. F. Jeavons, Bushbury Road, Wolverhampton.

MANAGER, Dispenser, or Senior; qualified; experienced; references. H., 3 Brook Street, Ilkley.

BRANCH Manager; qualified; 29; excellent references. "Minor," 21 Cambridge Place, London, W.

ASSISTANT, or Country Branch. D., Office of CHEMIST AND DRUGGIST, 42 Cannon Street, E.C

SURGEON'S Locum-tenens; Dispenser; care of Retail; 14 years' references. T., 320 Uxbridge Road, W.

MANCHESTER, or district; Junior, 21; 6 years' experience. "Radix," 117 Choriton Road, Manchester.

ASSISTANT or Manager; Minor; 28; good references and experience. T. Hodgkinson, Holly Seat, Belper.

APPRENTICESHIPS.

Please note that advertisements under this heading must be received at the office not later than 5 p.m. on Thursdays.

APPRENTICE.—Wanted, a well-educated youth as Apprentice in good Retail and Dispensing; every opportunity for making himself thoroughly acquainted with the business; comfortable home; moderate premium. John T. Loag, Pharmaceutical Chemist, 257 Hotwell Road, Bristol.

APPRENTICE.—Wanted, an educated, gentlemanly youth by Mr. Procter, Chemist, Penarth; highest-class business; unexceptionable references; late pupil passed Major examination in London February last in his 21st year; Penarth, 4 miles from Cardiff, is one of the prettiest watering-places in South Wales, and one of the healthiest towns in the kingdom.

APPRENTICE wanted in a first-class Retail and Dispensing business in North of London, with exceptional and unlimited means of acquiring a thorough knowledge of the business in all its branches; comfortable home; moderate premium; time for study. Apply to "Pharmacist," The Laboratory, Crouch End, N.

TO LET.

3s. 6d. for fifty words; 6d. for every 10 words beyond.

TO Chemists.—A Shop, with 8 good rooms, and side and back entrance, to Let, suitable for Chemist and Druggist; no opposition whatever; this business being much needed; large neighbourhood; rent, £40; main road. For further particulars, apply to Mr. J. F. Stonehewer, Auctioneer and Valuer, 142 High Street, Wandsworth.

CHEMISTS.—Splendid Opening.—Noble shop, unusually convenient dwelling-house, long garden, &c.; situate No. 4 The Pavement, Leytonstone Road (near station, church, and Congregational and Wesleyan chapels); adjoining shops are post-office, baker, draper, grocer, dyer; rent £45, worth £60. Apply on premises, or to the Landlord, Mr. Bacon, 25 Liverpool Street, City.

IMPORTANT Notice to Chemists.—Rare chance for beginners, or as Branch Establishment. To be Let on lease, capital Business Premises, comprising good shop and dwelling-house, in densely-populated locality, close to new public baths, free library, laundries, factories, &c., West London; has been a chemist's about 50 years; lease just expired and premises being put into thorough repair; rent only £50 per annum. Write or call, Collett & Co., Auctioneers, Estate, and Business Agents, 18 Ladbroke Grove Road, London, W.

FOR SALE.

3s. 6d. for fifty words; 6d. for every 10 words beyond.

Please note that advertisements under this heading must be received at the office not later than 5 p.m. on Thursdays.

CHEMISTS commencing business, &c.; the entire fittings, drawers, globes, bottles, scales, counter, utensils, and a quantity of stock; price about £60. Particulars from R. Heming, Wholesale Grocer, Sumner Lane, Birmingham.

TO be Sold, the entire Fittings of a first-class Pharmacy, consisting of glass cases, drawers, specie jars, swan-neck carboys, outside lamp, white porcelain and gold jars, 3 large mirrors, crystal glass chandelier, bottles, cut stoppers, burnt in pink labels, &c. Apply, W. Smith, 78 Haverstock Hill, N.W.

THOMAS TOMLINSON & SON, of New Cannon Street, Manchester, have a valuable proprietary Cough Linctus placed in their hands for disposal which has obtained considerable notoriety in the Australian Colonies, but has not been pushed in England owing to proprietor being short of means to carry it out with the success it merits; any person with a limited capital would certainly find it the nucleus of a splendid living, if not a fortune; price £100 only for prompt purchase; satisfactory proof will be given.

FOR Sale, 14 ft. second-hand mahogany drawers (85) and lockers, shelving, cornice, and mirror, pilasters, £13; 11 ft. ditto mahogany drawers (63) and lockers, shelving, and cornice, £9; 5-ft. dispensing-screen and counter, glass front, good second-hand, £7 10s.; desk and case, ditto, 45s.; one 6-ft. second-hand mahogany wall-case, £6 10s.; one ditto, 4½ ft. long, £5 10s.; one 8-ft. dispensing-screen and counter, colour of pitch pine, £8; two 5-gall. carboys, 20s.; 8-ft. mahogany window enclosure, £6; 24 best new pink jars, labelled, 5s. each; 15 dozen new gold-labelled rounds and jars, £8 5s. Estimates furnished, and shops fitted; experienced workmen sent to all parts. R. Tomlinson & Sons, Medical Fitters, Bond Street, Birmingham.

PARTNERSHIP.

3s. 6d. for fifty words; 6d. for every 10 words beyond.

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PARTNER required—to replace retiring one—in an established house, doing with grocers, stores, and others, in Packed Drugs, &c.; capital necessary about £1,200. Address, "Fuller's Earth," Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

SITUATIONS OPEN.

3s. 6d. for fifty words; 6d. for every 10 words beyond.

Please note that advertisements under this heading must be received at the office not later than 5 p.m. on Thursdays.

WANTED, a qualified Dispenser; Retail business; outdoors. Apply, personally, 27 Ball's Pond Road, Dalston, between 3 and 4.

WANTED, at once, a qualified Assistant; must be a good Counterman; state age and salary required. Fowke & Son, Chemists, Stafford.

JUNIOR Assistant wanted; outdoors; must have good references. State full particulars, age, height, and salary required, Markham & Co., Market Place, Darlington.

WANTED, an Improver. Apply, stating age, height, salary required, references, and enclosing photo (to be returned), to Tribe & Lamb, Chemists, 211 High Street, Chatham.

WANTED, at once, qualified Assistant (indoors) for Light Retail and Dispensing business. Apply, stating age, salary, references, &c., to King's Pharmacy, High Street, Southend-on-Sea.

AN Assistant, to manage village business; rooms and gas provided. State salary required, and whether married or single, to A. B., Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

QUALIFIED Assistant with view to future partnership required; small capital required down. Send photo and full particulars to "Drugs," c/o Barron, Harvey & Co., Giltspur Street, E.C.

A JUNIOR Assistant and an Improver; accustomed to Dispensing and General Retail; unqualified; good characters indispensable. Apply, with carte, "Pharmacist," 1 Spital Street, Dartford, Kent.

MIDDLE of November.—An energetic qualified Assistant, of good character; outdoors; moderate hours; weekly half-holiday. Usual particulars, with photograph, to Wm. Thomas, 82 Stokes Croft, Bristol.

TRAVELLER for Ireland.—Wanted, a gentleman, who must have a first-class connection in the trade, to offer goods to Chemists only. Apply, 40/21, Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

JUNIOR, for country town (indoors), in light Retail and Dispensing business; aged about 20; must have passed Preliminary. Apply, with full particulars, enclosing carte if possible, to "Micro" 168 Piccadilly, W.

WANTED, steady, energetic, trustworthy Assistant, for Mixed Country business; short hours; comfortable home. State age, experience, references, and salary required. 3 Market Street, Wem, Shropshire.

DISPENSER and Bookkeeper (outdoors), wanted immediately; ample time for study; suit young man reading for Minor. Apply, stating age, salary required, &c., and enclosing copies of testimonials, to A. G. Don, Surgeon, 63 London Road, Sevenoaks.

ASSISTANT or Junior in good-class Retail and Dispensing; time for study and class, if required; abstainer. State particulars of previous engagements, with age, salary, and references, or apply, W. T. Phillips, 193 Knight's Hill, West Norwood, S.E.

WANTED, a smart Junior to manage a branch; must be well up in Dispensing and Prescribing and able to Extract Teeth; will suit anyone studying for Minor; outdoors. Apply, with full particulars, to Ardern, Chemist, Ashton-under-Lyne.

A WELL-KNOWN house of Manufacturing Pharmacists desire the services of a Scottish gentleman to call upon Chemists in Scotland; a well-established connection is essential. Apply, 94/50, Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

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STUDENTS! If you wish to prepare for Examination easily and thoroughly, without leaving business or expending time and money on "correspondence systems" (?), write to Mr. Filtness, Chemist, Crowboro' Cross, Tunbridge Wells, for "How to Prepare for Exam.," gratis and post free. Success guaranteed. No Fee.

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TULLY'S method of preparationis without equal; send for particulars Knotty Points in Latin Grammar, 1s. 6d.; Cæsar Simplified, 1s.; Metric System Simplified, 1s.; How to Write an Essay, 3d.; Equations Simplified, 1s.; Student's Herbarium, 100 specimens, 7s. 6d., post free. Mr. J. Tully (Hill's Prizeman), Chemist, Hastings.

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FIRE INSURANCE COMPANY.

Head Offices { 45 DALE STREET, LIVERPOOL. 74 KING WILLIAM STREET, LONDON.

Annual Income, **£702,000.**
Funds in Hand, **£807,000.**

Premiums Moderate. Losses settled with promptitude and liberality.

Applications for Agencies specially invited from Chemists and Druggists in both Town and Country Districts.

EXCHANGE COLUMN.

See page 10 (bottom folio)

Limited to the Advertisement of Surplus Stock, Formulæ, Addresses Wanted, and Articles Wanted.

If you have no surplus stock to Advertise just now, keep this Form for future use.

Printed by Spottiswoode & Co., New-street Square; and Published at the Office 42 Cannon Street, in the City of London.—October 24, 1891.

DUNCAN, FLOCKHART & CO.,

WHOLESALE AND EXPORT DRUGGISTS, EDINBURGH.

CHLOROFORM

(DUNCAN'S),

Prepared from Pure and Methylated Spirit, also Chloroform (blue label).

Put up in all sizes of bottles. A strap with Name and Trade Mark of the Firm is placed over the stopper of each bottle. For Export, in bottles corked and inted (stoppers attached), and in hermetically sealed flasks when required.

N.B.—We guarantee all our Chloroforms to be PURE CHLOROFORM, *answering all the tests of the British Pharmacopœia.*

CHLORIC ETHER

(DUNCAN'S).

This is a special preparation, quite different from Spir. Chloroformi P.B., perfectly miscible with water, and always of the same strength

SPECIALITIES.

Castor Oil. Almond Oil. Olive Oil. Cod-liver Oil. Acetic Acid. Tartaric Acid. Phosphoric Acid. Salicylic Acid.

Camphor. Glycerine. Lithia Salts. Tartar Emetic. Castile Soap. Pepsin, P.B.

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Ess. of Lemon. Gums. Perfumes. American Cotton Oil, etc.

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FUERST BROS.

LONDON, E.C., 17 Philpot Lane; and NEW YORK, 2 & 4 Stone Street.

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WHOLESALE & EXPORT DRUGGISTS, Manufacturing Chemists,

PROPRIETORS OF FIELD'S SELECT PREPARATIONS

15 Laurence Pountney Lane AND Arthur Street West, LONDON, E.C.

Saline. Liquid Extracts. Glycerine and Cucumber. Concentrated Waters. Liq. Papain & Iridin Co. Liq. Euonymin et Cascarae Sagradae Co. Liq. Pepticus. Liq. Santal c. Buchu et Cubeba. Liq. Copaibæ c. Buchu, Cubeba, et Matico. Liq. Gaulophyllin et Pulsatillae Co. Liq. Enzymin et Pepsin Co. Infusions. Concentrated Liquors. Concentrated Chlorodyne. Medicine.

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IN THE TREATMENT OF

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It combines the action of Pepsin and Pancreatine, as it digests in Acid, Alkaline, and Neutral Solutions.

With Meat Albumen it forms true Peptons and Propeptons.

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An extended use by the leading English and Continental Physicians has proved it to possess

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Lancet, June 25, 1891: *Medical Press and Circular*, May 6, 1891; *Edinburgh Med. Journal*, September, 1891; *Prov. Medical Journal*, February and August, 1891; *Medical Annual*, 1891; *Chemist and Druggist*, August 1, 1891; *British and Colonial Druggist*, September 18, 1891.

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EAR-CAP FOR CHILDREN

The best and most becoming little cap to wear yet invented, which prevents children from overlaying upon their ears during sleep, thus causing the unsightly appearance of Prominent Ears.

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Size	Single	Double
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2	9/6	20/
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Also in Scarlet or White Natural Wool Felt of finest quality.
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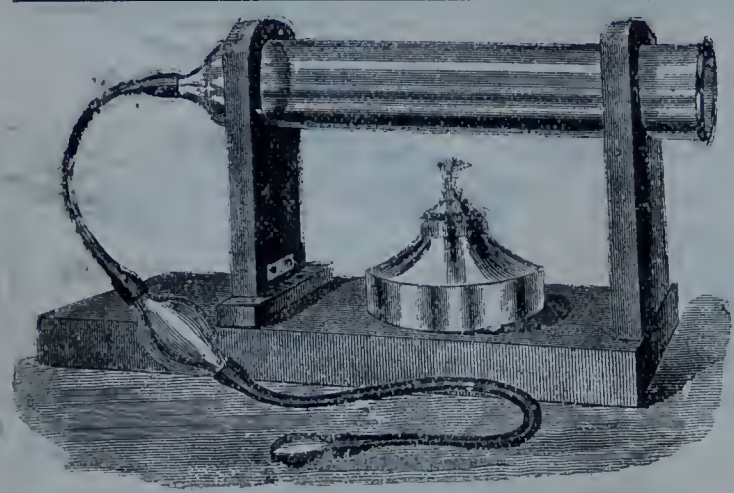

MAXWELL'S CHLORIDE OF AMMONIUM INHALER.

The simplest and cheapest Apparatus yet introduced to the profession. Requires no strong caustic or acid liquids. Fumes are invariably neutral.

Retails for 4s. 6d.

To be had of all Chemists and Sundriesmen, and of the Proprietors—

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LYNCH & CO., London Agents.

Patented in Great Britain and America.

LONDON HOMŒOPATHIC HOSPITAL AND MEDICAL SCHOOL, GREAT ORMOND STREET, BLOOMSBURY, W.C.

President—The Lord Ebury. *Chairman*—Major Wm. Vaughan Morgan.

Contains 90 Beds, and being entirely supported by Voluntary Contributions, Donations and Annual Subscriptions are earnestly solicited. The Hospital is always open to the inspection of visitors, and Clinical Instruction is given in the Wards and Out-patient Department to Medical Students and Practitioners. It possesses a valuable Library of Homœopathic Publications, which Medical Men are invited to study. They are also invited to visit the Dispensary. The In-patients number over 700 annually; the Out-patients nearly 9,000 annually. The number of Patients treated since the inauguration in 1849 exceeds 215,000. It has a staff of 49 Nurses for Ward Nursing and Nursing Invalids at their residences

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Are liable to Medicine Stamp Duty when described as BELLADONNA: For Sore Throat, Hoarseness, and Headache, &c.
But the following kind of label is not liable to duty:
ACONITUM NAPELLUS.
Specific Action.—On the Heart and Circulation, the Nervous System and Skin.
Reduced prices for 1/ ℥ij. bottles in cardboard cases, 3/ per doz. Bottles of 75 Tablets, 6/ per dozen.

C. MYERS, EXCHANGE ARCADE, MANCHESTER.
Can be obtained Wholesale from Messrs. Woolley, Sons & Co., Manchester.

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ARE THE BEST AND CHEAPEST.

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ON THESE **MEDICINAL CAPSULES** CHEMISTS ARE ALLOWED A LARGE PROFIT.

SANTAL OIL CAPSULES, PERUVIAN MIXTURE CAPSULES, COPAIBA BALSAM CAPSULES, CUBEB OIL AND COPAIBA CAPSULES, MALE FERN CAPSULES.

ALL KINDS OF CAPSULES.

DENOUAL'S INJECTION.

ALL DRUGS WARRANTED TO BE GENUINE

JULES DENOUAL,
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52

A WORD TO THE WISE.

Chemists who wish to increase their returns, read and ponder over the following:—There are in England millions of birds kept in cages; what do you do to cater for them? In every town there are a large number of bird-fanciers, who use a quantity of bird foods, and every chemist can supply them with advantage and profit to himself.

The proprietor of Capern's Specialities for cage birds was a chemist for 20 years, and can therefore speak with experience as to the feasibility of working bird foods in conjunction with a chemist's business. In every town there are bird clubs, and foods of various kinds are used, and chemists should lay themselves out to supply these wants. Why, in the city of Glasgow alone we sell £1,200 of our packed goods and in many a village in Wales hundreds a year. Some time since a pharmaceutical chemist wrote to us for one of our preparations for a customer of his; as we had no agent in his town we offered it to him. He answered—No! he thought there were no birds kept there, and he didn't think he would stock them. We offered him them on sale or return, and now his orders amount to a good many pounds' worth each time, and increase with each order.

In Norwich one firm alone sells about 40,000 canaries a year, and they are valuable stock. A crested Norwich sold for £80, and a Scotch fancy canary sold for £40, besides bringing in about £30 in one year in prizes.

All our goods have been thoroughly experimented on before bringing out. We import all our seeds direct from abroad to guarantee their sweetness and quality. We import hundreds of tons of seeds yearly. Our sales of only one of our seed mixtures during 1889 was 290 tons, and our mixture for blackbirds and thrushes 40 tons. We give every facility and advice to chemists to promote the sale of our goods. They are well got up and fit for any counter. Any goods found unsaleable will be allowed for if returned carriage paid. We send handsome showcards and handbills. About a £2 order we send carriage paid. Write for wholesale list to-day.

F. CAPERN, Bird Specialist, BRISTOL.

BURROUGHS, WELLCOME & C

Dr. J. COLLIS BROWNE'S
CHLORODYNE.

THE ORIGINAL AND ONLY GENUINE.

IMPORTANT CAUTIONS

From Lord Chancellor SELBORNE, Vice-Chancellor Sir W. PAGE WOOD and the LORDS JUSTICES OF APPEAL.

VICE-CHANCELLOR SIR W. PAGE WOOD, by whom the suit in Chancery was first heard, stated in his judgment that 'Dr. J. Collis Browne was undoubtedly the Inventor of Chlorodyne, that the whole story of the Defendant Freeman was as deliberately untrue as the falsehood he had deposed to with reference to the use of his Chlorodyne in the Hospital.'

The VICE-CHANCELLOR also stated, 'that Chlorodyne was a fanciful name, and had application been made sooner, the Court would have given Dr. Browne protection.'

LORD CHANCELLOR SELBORNE coincided with the judgment of the Vice-Chancellor upon this point, and stated 'that had application been made at a proper time and place, the Court would have found means to restrain the Defendant from misrepresenting the decision of the Vice-Chancellor.'

LORD JUSTICE JAMES, on appeal, stated in his judgment, 'that the Defendant Freeman had made a deliberate misrepresentation of the decision of Vice-Chancellor Wood.'

It was proved in Court, on affidavit by Mrs. Forbes, of Paris, that the testimonial published in the *Times*, November 14th, 1865, speaking of the great efficacy of Chlorodyne in Cholera, referred to Dr. J. Collis Browne's Chlorodyne, and that she never used any other, that she had written to the Defendant Freeman to that effect; notwithstanding which notice the Defendant publishes the said testimonial as referring to his medicine.

The Editor of the *Medical Times*, in his report on Chlorodyne, January 13th, 1866, gives information that the Chlorodyne referred to was the medicine introduced by a retired Army Medical Officer, which was Dr. J. Collis Browne; still this is published by the Defendant as testimony to his medicine.

Numerous affidavits from eminent Physicians and others were produced in Court, stating that Dr. J. Collis Browne was the inventor of Chlorodyne, and that when prescribing they mean no other.

The Defendant himself publishes that his compound is in effect and composition quite different to any other preparation; nevertheless he assumes the name, testimonials, &c., of Chlorodyne.

Technicalities in law prevent that protection which the public should justly have against such a course of conduct. It is now incumbent on all who purchase Chlorodyne to see that the name, 'Dr. J. Collis Browne's Chlorodyne,' is engraved on the Government Stamp, as it is not sold otherwise. All other compounds under the name of Chlorodyne are spurious. All attempts at analysis have failed; hence the statement that the constituents of Chlorodyne are known is a misrepresentation.

ONLY GENUINE

FURTHER IMPORTANT NOTICE.

The subjoined list of eminent Firms concur with Vice-Chancellor Sir W. Page Wood's statement in Court, that Dr. Collis Browne was undoubtedly the Inventor of Chlorodyne; and that when Chlorodyne, or the Original Chlorodyne, is ordered, they invariably supply Dr. J. Collis Browne's:—

Apothecaries' Hall,	London
Allen, Hanbury & Co.,	"
Baiss Brothers,	"
Banks & Richards,	Birmingham
Barron, Harvey & Co.,	London
Bell, John, & Co.,	"
Bourne & Taylor,	"
Corbyn & Co.,	"
Cox & Gould,	"
Curling & Co.,	"
Curtis & Co.,	"
Davy, M'Murdo & Co.,	"
Dobbin, W., & Co., Limited	Belfast
Drew, Barron & Co.,	London
Drew, B., & Alexander,	"
Dunn & Company,	"
Edwards, W.,	"
Evans, Gadd & Co.,	Exeter
Evans, Lescher & Webb,	London
Ferris & Co.,	Bristol
Foulger, S., & Son,	London
Frazer & Green,	Glasgow
Gale & Co.,	London
Giles & Son,	Clifton
Goulding, Messrs.	Cork
Gratton & Co.,	Belfast
Grimwade, Ridley,	London
Grindley & Son,	Chester
Hearon, Squire & Francis,	London
Hodgkinson, Tonge & Stead,	"
Hopkins & Williams,	"
Hovenden, R., & Sons,	"
Hunt & Co.,	Exeter
Hunt, A., & Co.,	"
Johnson, J. H. & S.,	Liverpool
Langton, W., & Co.,	London
Lynch & Co.,	"
Mander, Weaver,	Wolverhampton
Marsden & Sons,	London
Maw & Son,	"
Meggeson & Co.,	"
Mackay, John, & Co.,	Edinburgh
Morson, T., & Son,	London
Newbery & Sons,	London
Oldham, G., & Co.,	Dublin
Parsons & Richardson,	Leicester
Peake, Allen & Co.,	Dublin
Raimes & Co.,	York
Raimes & Co.,	Edinburgh
Sang & Barker,	"
Sanger, J., & Sons,	London
Sim, James, & Co.,	Aberdeen
Smeeton, W.,	Leeds
Southall & Co.,	Birmingham
Sutton, W., & Co.,	London
Tomlinson, Hayward & Co.,	Lincoln
Treacher, Hodgkinson & Co.,	London
Westrup, J. B.,	Kensington
Westwood & Hopkins,	London
Woolley, James,	Manchester
Wyleys & Brown,	Coventry
Yates & Co.,	London

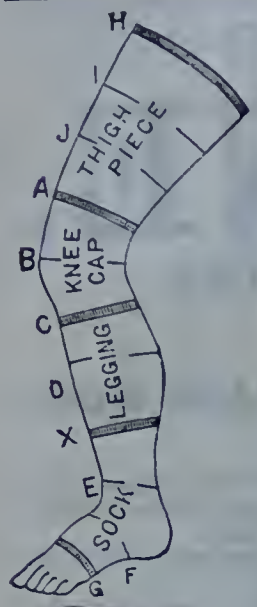
After these public statements in a Court of Equity, and subsequent confirmation by the trade at large, no Chemist can conscientiously use or sell any other compound for Chlorodyne without committing a breach of faith, unjust to patient and physician. The value of the remedy *alone* creates the great demand.

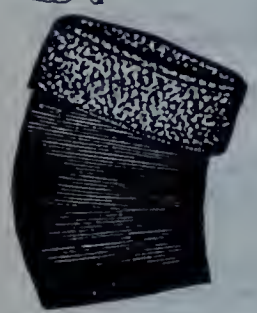
Sold in Bottles—1s. 1½d., 2s. 9d., 4s. 6d., and 11s. Usual Discount to the Profession.

SOLE MANUFACTURER,

J. T. DAVENPORT, Pharmaceutist,

33 GREAT RUSSELL STREET, BLOOMSBURY SQUARE, LONDON.





Patent Pile, Protected, 14,613. The Pile lying over the India-rubber Cords, protecting them and forming a smooth soft surface to the limb.

ELASTIC SURGICAL STOCKINGS, APPLIANCES, &c.

Having had a large demand for Elastic Appliances I have increased my plant by the addition of a number of my Patent Machines, and am now enabled to make stock in advance, of all usual qualities of Elastic Stockings, &c., and forward order for usual makes and sizes at once.

Very common low-price articles are being made in the trade which I do not stock or recommend, but if ordered, I can make to any sample of quality at less price than any other manufacturer, on account of the superiority of my Patent Machinery.

Handbook of my Manufactures will be forwarded to any Surgical Instrument Maker or Chemist free.

MAGNETIC BELTS & APPLIANCES.

Elastic Surgical Stockings, Knee Caps, &c.
Patent Spiral Seamless Elastic Stockings, &c.
Patent Pile Surgical Elastic Stockings.
Elastic Supports for Lawn Tennis, Cricket, Lacrosse, and other Athletic Sports.
Bath and Rubbing Gloves.
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Trusses of every description.
Poro-plastic Jackets.
Bandages — Indiarubber, Elastic, Lint, Cotton, Sayres', &c.
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Horse Ear Caps & Veterinary Appliances.
Suspensory Bandages.
Ladies' and Gentlemen's Belts.

Hot Water Bottles and Covers, Respirators, Inhalers, Bronchitis Kettles, Throat Sprays, Waterproof Coats, Cloaks and Driving Aprons, Footballs, Shin Guards, and Athletic Appliances, Druggists' Sundries, Invalid and Nursery Appliances, &c.

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London Agent—HENRY C. QUELCH, St. Paul's Chambers, 1 Ludgate Square, E.C.

THE INHALANT "SPIRONE"

TRADE MARK.

FOR THE TREATMENT AND CURE OF ALL

DISEASES OF THE LUNGS, WINDPIPE, NOSE & THROAT.

CLAIMS TO BE A

Specific for all Congestive and Inflammatory Conditions of the Respiratory Apparatus,

And will be found efficacious in

COUGHS AND COLDS, ASTHMA, BRONCHITIS,

Inflammation and Congestion of the Lungs, Pneumonia, Pleurisy, Whooping Cough, Croup, Diphtheria, Pharyngitis, Laryngitis, Catarrh, Sore Throat, Quinsy, Enlarged Tonsils, Hoarseness, Loss of Voice, Colds in the Head, Hay Fever, and all other Complaints of the Respiratory Organs.

None Genuine except such as bear the above Trade Mark "SPIRONE" and the Signature of the Inventor upon the Bottles, on the Label over the Cork, and on the Wrapper.

Retail Price 4s. 6d. and 11s. per Bottle. Set of Apparatus for Administration, 15s.

PAMPHLETS AND SHOWCARDS FREE ON APPLICATION.

THE SPIRONE COMPANY, LIM., Depot—17a Duke Street, MANCHESTER SQUARE, **LONDON, W.**

SPECIAL REDUCTION

IN THE

PRICE OF FEEDING BOTTLES

FEEDING BOTTLES.

MATHER'S WHITE GLASS STRAIGHT OR PRINCESS SHAPE BOTTLES, Boxwood Top Corks, *Mounted with Best White, Black, or Brown Fittings*, per gross ... ... **26/-** nett.

MATHER'S "THE PRINCESS," WHITE GLASS, fitted with Glass Screw Cap, *Mounted with Best White, Black, or Brown Fittings*, per gross... ... ... **30/-** nett.

In Quantities of not less than One Gross at a time.

The above are loose; if packed in divisioned Wood Boxes of one dozen each, **4/-** *per gross extra.*

Do you sell any of the following? If not, why?

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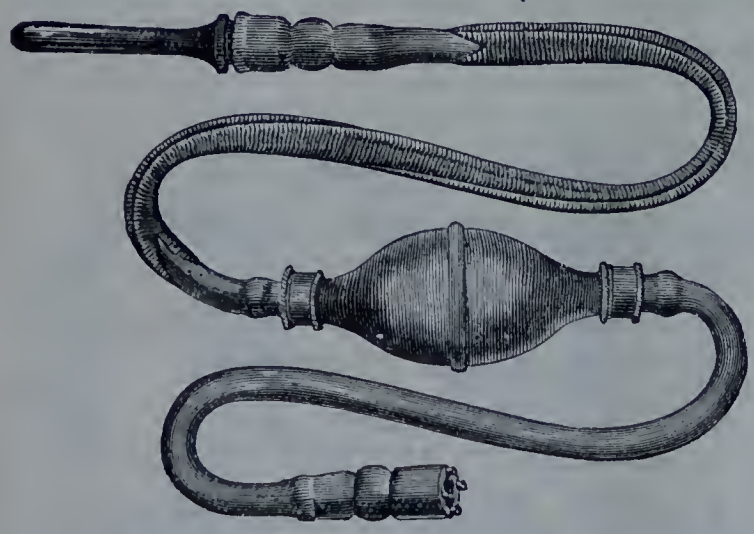

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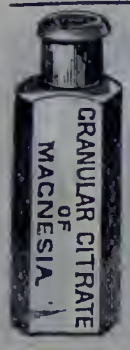

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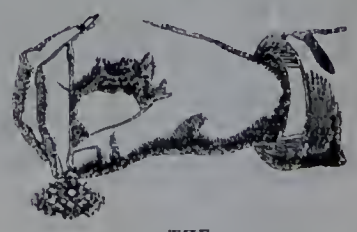
Trade Mark.  Registered.

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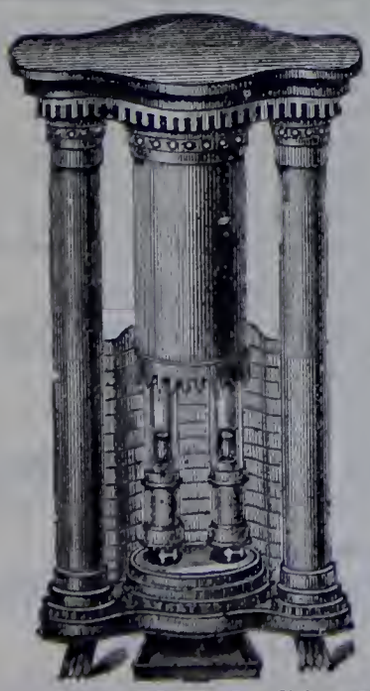

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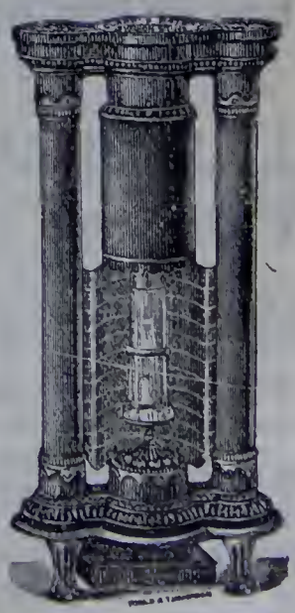

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